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January 2024

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A CENTURY OF SERVICE TO THE NATION

Volume 30

Number 10

IEI wishes its Members a Happy New Year

38th Indian Engineering Congress, Jabalpur

Reimagining Tomorrow: Shaping the Future through Disruptive and Interdisciplinary Technologies

The 38th Indian Engineering Congress of The Institution of Engineers (India) was hosted by the Jabalpur Local Centre of the Institution on the theme **Reimagining Tomorrow: Shaping the Future through Disruptive and Interdisciplinary Technologies** during December 27-29, 2023, at Hotel Royal Orbit, Jabalpur. Shri Rajendra Shukla, Hon'ble Deputy Chief Minister, Government of Madhya Pradesh, graced the Inaugural Function as the Chief



Guest and Er U P Singh, IAS (Retd), Former Secretary, Union Ministry of Textiles, Government of India graced the occasion as the Guest of Honour.

The inaugural session of the mega event was started with invocation and lighting of the lamp. Maj Gen (Dr) MJS Syali, VSM (Retd), Secretary & Director General, IEI, read out the Message received from the Office of the Hon'ble Prime Minister of India. Er Rakesh Kumar Rathore, Chairman, Organizing Committee and Council Member, IEI, welcomed the Chief Guest, Guest of Honour, Awardees, international delegates, dignitaries, paper presenters, Past Presidents, Council Members and participants. Dr G Ranganath, the then President-Elect and presently President, IEI in his address underscored the crucial interplay between industry and academia in shaping the future during his address. He emphasized that the synergy between these two pillars is indispensable for fostering innovation and effectively addressing the multifaceted challenges of our times. In a complementary vein, Er Shivanand Roy, the then President, IEI, emphasized the imperative of developing engineering skills for the betterment of mankind in his address.

Shri Rajendra Shukla, in his address stressed on the exchange of views and ideas during the technical deliberations with the objective to explore robust sustainable engineering excellence. He further stressed on the uniform distribution and cost effective utilization

of the resources and opined that the recommendations emanating from the technical deliberation be forwarded to the appropriate policy making body. Guest of Honour, Er U P Singh, IAS (Retd) discussed at a length the significance of climate resilient structure, water management and sustainability, agricultural sustainability etc.

On the occasion, the Technical Proceedings and the Souvenir of the 38th Indian Engineering Congress were released by the dignitaries on the dais. The prestigious IEI Industry Excellence Award 2023 and IEI Engineering Education Excellence Award 2023, were presented during the occasion.

The IEI Industry Excellence Award was instituted to recognize the industry leaders for their innovation, excellence in engineering operations and services, and their capacity to sustain excellence in a competitive manner. The bench-marks created by the industries in India have included productivity, quality, safety and performance assurance, which will give India its rightful place in the global markets. Delegates from reputed industries all over India graced the Award function with their august presence. For the year 2023, the IEI Industry Excellence Awards were presented to the following organizations in three categories, namely: Engineering Manufacturing & Processing, Engineering Organizations in Construction Industry and Engineering Services and Consultancy.

In the category, **Engineering Manufacturing and Processing**, the Awardees are

Hindustan Aeronautics Limited, Bangalore
Bharat Electronics Limited, Bangalore
Coal India Limited, Kolkata
BrahMos Aerospace, New Delhi
Salem Steel Plant
SJVN Limited, Shimla
Shriram Rayons, Kota
Avantel Limited, Hyderabad



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Reimagining Tomorrow: Shaping the Future through Disruptive and Interdisciplinary Technologies

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In the category **Engineering Organization in Construction Industry**, the Awardees are

Afcons Infrastructure Limited, Mumbai

Rail Vikash Nigam Limited, New Delhi

KPC Projects Limited, Hyderabad

In the category **Engineering Services and Consultancy**, the Awardees are

TATA Consultancy Engineers, Mumbai

Engineers India Limited, New Delhi

MECON Limited, Ranchi

Holtec Consulting Private Limited, New Delhi

Consulting Engineers Group Limited, Jaipur

Development Environergy Services Limited, Ahmedabad

Epicons Consultants Private Limited, Maharashtra

On the occasion, the name of the organizations, **recognized for their Commendable Performance** was announced as follows.

Gujarat Gas Limited, Ahmedabad

ONGC Tripura Power Company Limited, Tripura

Danieli India Limited, AP

Global Engineers Limited, Delhi

SOGEFI ADM Suspensions Private Limited, Pune

AARVEE Associates Architects Engineers & Consultants Pvt Ltd, Hyderabad

Intercontinental Consultants and Technocrats, New Delhi

WAPCOS Limited, New Delhi

Odisha Power Transmission Corporation Limited, Bhubaneswar

L N Malviya Infra Projects Private Limited, Bhopal

Highway Engineering Consultant, Bhopal

Avant Garde Systems and Controls Pvt Limited, Chennai

B&S Engineering Consultants Private Limited, Noida

Ruky Projects Private Limited, Hyderabad

Squadron Infra and Mining Private Limited, Bangalore

Amal Bora & Co, Pune

Tandon Consultants Private Limited, New Delhi

The IEI Engineering Education Excellence Award has been instituted to recognize leading Engineering Educational Institutions and encourage them to provide better and more effective engineering education across the country, was presented to the following engineering institutions/colleges for their outstanding performance with high order of educational excellence in three categories, namely Best Engineering College/ Institution, Best Engineering Polytechnic and Best Women Engineering College/ Institution.

In the category **Best Engineering Colleges/ Institutions**, the Awardees are

Sri Sivasubramaniya Nadar College of Engineering, Chennai

Sona College of Technology, Salem

Visvesvaraya National Institute of Technology, Nagpur

Karunya Institute of Technology and Science, Coimbatore

Rajalakshmi Engineering College, Chennai

In the category **Best Engineering Polytechnic**, the Awardees are

Thiagarajar Polytechnic College, Salem

Jharkhand Government Tool Room, Ranchi

In the category **Best Women Engineering College/ Institution**, the Awardees are

G. Narayanamma Institute of Technology & Science (For Women), Hyderabad

BVRIT Hyderabad College of Engineering for Women, Hyderabad

On the occasion, the name of the engineering colleges/institutions, **recognized for their Commendable Performance** was announced as follows.

Vel Tech Rangarajan Dr. Sagunthala R&D Institute of Science and Technology, Chennai

Chitkara University, Punjab

Bannari Amman Institute of Technology, Tamil Nadu

Malaviya National Institute of Technology, Jaipur

Madhav Institute of Technology & Science, Gwalior

Bhilai Institute of Technology, Durg, MP

Hindustan Institute of Technology and Science, Chennai

Excel Engineering College, Komarapalayam

SantLongowal Institute of Engineering & Technology, Punjab

Dr. M.G.R. Educational and Research Institute, Chennai

R M K Engineering College, Tamil Nadu

K Ramakrishnan College of Engineering, Tamil Nadu

Siddaganga Institute of Technology, Tumkur

Inderprastha Engineering College, Ghaziabad

Vishwakarma Institute of Technology, Pune

K Ramakrishnan College of Technology, Tamil Nadu

Swami Keshvanand Institute of Technology, Management & Gramothan, Jaipur

KCG College of Technology, Kalpakkam

Cambridge Institute of Technology, Bengaluru

Lakireddy Bali Reddy College of Engineering, Andhra Pradesh

S J C Institute of Technology, Chickballapur, Karnataka

Karnataka Law Society's Vishwanathrao Deshpande Institute of Technology, Karnataka

MIET Engineering College, Tiruchirappalli

Akshaya College of Engineering and Technology, Coimbatore

GM Institute of Technology, Karnataka

Bharati Vidyapeeth (Deemed to be University) College of Engineering, Pune

Lakshmi Narain College of Technology, Bhopal

Vishwakarma Institute of Information Technology, Pune

Ramco Institute of Technology, Tamil Nadu

Vishwakarma University, Pune

Shri Vaishnav Vidyapeeth Vishwavidyalaya, Indore

PAC Ramasamy Raja Polytechnic College, Tamil Nadu

The IEI Industry Excellence Award and IEI Engineering Education Excellence Award session were followed by the morning session of the prize distribution ceremony for the best papers published in the IEI Springer journals to recognize the contribution of the authors in advancing the science and the art of engineering. On the occasion, the prestigious President of India's Prize, Institution Prizes, K F Antia Memorial Prize and Corps of Engineers Prize were awarded to the authors for the best papers published in the Institution's journal in the year 2022. An award session was also held during the afternoon of the inaugural day to distribute the remaining prizes for the best papers published in the IEI Springer Journal and other publications of IEI.

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Address by

Dr G Ranganath

President, IEI



Full text of the Presidential Address delivered by Dr G Ranganath, President, IEI during the 104th Annual General Meeting of the Institution held in Jabalpur on December 29, 2023

Introduction

Ladies and gentlemen,

As we gather today in the enchanting city of Jabalpur for the 104th Annual General Meeting of The Institution of Engineers (India), I am deeply humbled and profoundly honored to stand before you as the President of this esteemed institution. This moment carries a profound sense of responsibility, and I extend my heartfelt gratitude to the distinguished Council of the Institution for bestowing their trust in me.

IEI's Council is a combination of eminent people, consisting of intellectuals, specialist etc., from all domains. Accordingly, I consider Council as a Supreme body in setting directions for IEI's future. Hence, all Administrative Actions will be taken strictly as per provisions of Bye-Laws & Regulations and decision of the Council, the August & Supreme body and will be most Transparent.

I must express my sincere thanks to my well-wishers and friends, especially those within the engineering community. Your unwavering encouragement and support have afforded me the privilege of serving the Institution to the best of my abilities. As Henry Gordon Stott once said, "Engineering is the art of organizing and directing men and controlling the forces and materials of nature for the benefit of the human race."

Acknowledging Our Past

Today, we stand on the threshold of a new chapter in the Institution's history, and it is only fitting that we take a moment to reflect on the rich tapestry of achievements and contributions to our nation by giants of the engineering profession. It is with great reverence that we remember luminaries such as Bharat Ratna Sir Mokshagundam Visvesvaraya, Sri. Satish Dhawan, Sri. APJ Abdul Kalam, Sri R N Mookerjee, etc., Their dedication and contributions have left an indelible mark on the development of engineering in our great nation.

We must also acknowledge the visionary leaders who have steered the Institution's course over the years. In particular, I would like to extend my heartfelt appreciation to all my predecessors.

The Institution of Engineers (India) - A Beacon of Social Engineering

The Institution of Engineers (India) is not just an advocate for the cause of engineering but a torchbearer for social engineering. Our policies are firmly committed to building an inclusive, sustainable, and resilient future that aligns seamlessly with the United Nations Sustainable Development Goals (SDGs). These goals, with their multifaceted and interconnected nature, can only be realized through the effective, appropriate, and inclusive application of science, technology, and innovation.

Our diverse forums and divisions are actively engaged in activities that are socially oriented, addressing specific areas of national development. These initiatives encompass skill development, water resource management, and rural development, all aimed at fostering equitable growth. In the current decade, our Institution is poised to intensify its efforts to contribute to the achievement of the SDGs, particularly through international platforms such as WFEO & FEIAP.

As we navigate the evolving technological landscape, The Institution of Engineers (India), with its strategically located Centers, Foras, and ESCI, is uniquely positioned to delve deeply into emerging technologies and to identify contemporary subjects for meaningful debate and discussion. These discussions will allow us to provide valuable policy inputs and roadmaps to address the complexities of our time.

Embracing Technological Transformation and Navigating the Challenges

Now, we find ourselves at a pivotal moment in history. As technology rapidly transforms our lives, we are presented with both extraordinary opportunities and profound challenges. The relentless pace of development impacts climate, water resources, land use, and countless other vital aspects of our planet. Striking the delicate balance required is a formidable task. To meet this challenge head-on, we must reimagine our education system, professional practice, and resource allocation to adapt to the evolving needs. The Institution, with its multidisciplinary approach and wide geographic presence, is ideally positioned to assume a leadership role in shaping the conversation and providing invaluable insights to stakeholders across the spectrum.

A Vision for Progress: The Five-Point Program

I envision a five-point program for our Institution:

1. Outreach for Sustainable Development: Our institution will align itself with the sustainable development paradigm. We will focus on the five Ps - people, planet, prosperity, peace, and partnership, offering policy inputs and roadmaps to guide the government in fulfilling the Sustainable Development Goals.
2. Perspective plan of IEI: Planning means looking ahead and chalking out future course of actions to be followed. It is a systematic activity which determines when, how and who is going to perform a specific activity. Perspective Plan is a plan for a fairly long period, say 10 to 20 years, less detailed and less concrete than annual plans. Thus perspective planning is a blue print regarding the objectives and targets of long run growth. IEI's Perspective Plan 2023-32 is a strategic articulation of its development vision, mission, goals, and objectives, and a high level strategy to achieve them. It also specifies an action plan around the framework of resources, competencies, and capacities. The plan identifies critical challenges; provides a strategic framework for sustainable and inclusive growth.
3. Enhanced services through digitalisation and automation: Members of the institution are the main stakeholders. We will continually enhance our services to Members through digitalisation and automation. Digitalisation is the integration of digital technology into all areas of our institution activities, fundamentally changing how you operate and deliver value to stakeholders. It's also a cultural change that requires organizations to continually challenge the status quo, experiment, and get comfortable with failure. Automation is one of the major catalysts that make it possible to actually execute on digital transformation goals large and small. I feel that number of activities at IEI headquarters can be automated which will take care of reduced manpower at headquarters and also ensure systematic documentation.

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The Punjab & Chandigarh State Centre and Bareilly Local Centre of the Institution have been adjudged the **Best State Centre** and **Best Local Centre** respectively for their all-round performance during the year 2020-21. The awards comprising of trophies and the certificates were given away to the respective Centres on December 27, 2023 during the inaugural function of the 38th Indian Engineering Congress held at Jabalpur.

The Telangana State Centre & Tripura State Centre of the Institution jointly has been adjudged the **Best State Centre** for their all-round performance during the year 2022-23. The awards comprising of trophies and the certificates were given away to the respective Centres on December 27, 2023 during the inaugural function of the 38th Indian Engineering Congress held at Jabalpur.

The Coimbatore Local Centre of the Institution has been adjudged the **Best Local Centre** for their all-round performance during the year 2022-23. The award comprising of trophies and the certificates were given away to the Centre on December 27, 2023 during the inaugural function of the 38th Indian Engineering Congress held at Jabalpur.



The Inaugural Function which was well attended by Past Presidents, Vice Presidents, Council Members & Corporate Members of IEI, delegation from industries, Awardees, Engineering Professionals, Academicians, Research Scholars and representatives from the entire gamut of the engineering fraternity, culminated with the vote of thanks delivered by Maj Gen (Dr) MJS Syali, VSM (Retd), Secretary & Director General of the Institution.

During the three days of the 38th IEC, various important sessions like Memorial Lectures; felicitation of distinguished engineering personalities; Visionary Talks, delivered by eminent speakers & doyens of engineering personalities, International Meet, Alumni Meet and Women Engineers' Meet were organized. The Visionary Talk was delivered by Shri Jayant D Patil, Member of Executive Council of Management and Advisor, Defence and Smart Technologies to CMD, L&T. Eminent engineering personalities felicitated during the occasion were, Lt Gen Rajeev Chaudhry, VSM (Retd), Former Director General, Border Roads Organization and Er U P Singh, IAS (Retd), Former Secretary, Union Ministry of Textiles, Government of India.

Eight numbers of Memorial Lectures were delivered on the memory of the distinguished engineering personalities, by eminent experts in the field. Eminent speakers on the occasion were Er S Sumanth, Formerly MD (Mescom), Director Transmission, KPTCL, MD (Kavika); Prof (Dr) Santosh Ansumali, Jawaharlal Nehru Centre for Advances Scientific Research, Engineering Mechanics Unit; Shri Sanjay Kumar Verma, Director (Commercial), MECON Limited; Er Khemchand Dhimole, Technical Advisor to the Chief Minister, Arunachal Pradesh; Dr Arup Kumar Misra, Chairman, Pollution Control Board, Assam; Dr Sudhir Kumar Mishra, Former Distinguished Scientist & Director General (BrahMos), DRDO, New Delhi & Ex CEO & MD, BrahMos Aerospace; Dr D K Singh, Vice Chancellor, Jharkhand University of Technology, Ranchi and Er G Kondala Rao, Chief

Engineer (Retd), Public Health & Municipal Engineering, Government of Andhra Pradesh.

Over the next two days, ten technical sessions were organized during which 59 papers were presented by scholars and experts on diversified topics, which included application of renewable energy resources, methods of Dynamic Programming based Optimized Controller for charging EV batteries using renewable energy sources, An efficient and reliable algorithm for Wireless Sensor Network, application of Artificial Intelligence and Machine Learning in healthcare, Environmental Management System, AI based approach for forecasting of solar power generation, Application of Artificial Intelligence in Construction Project Management, Sustainable Mining Practises in Open Cast Mines, use of Cross Laminated Timber (CLT) for sustainable High-rise buildings, adapting to change in Construction Projects Management, Thermal Management of Lithium-ion battery for electric vehicles, study of Vertical Axis Wind Turbine, application of different waste management practices, application of advanced Composite Materials for industrial applications, aeroelastic stability studies, study of Green Fabrication and Green Architecture, etc. The sessions drew a large number of audience comprising practitioners, academics, researchers, and students.

The Institution organizes the 'International Meet' every year in conjunction with the Indian Engineering Congress with the goal of bringing together the global fraternity of engineers and technologists to mingle, exchange knowledge, share information, form strategic alliances, and return more enriched, committed and confident professionals. This year the International Meet was held on 28 December 2023 which was attended by Er Shivanand Roy, the then President, IEI, Dr G Ranganath, the then President (Elect), the Hon'ble Past Presidents of The Institution of Engineers (India), foreign dignitaries from the Korean Institute of Electrical Engineers (KIEE) and the representatives from Nepal Overseas Chapters of IEI and many other Members of the IEI Council. During the event, representatives from the Nepal Electricity Authority (NEA) engaged in extensive discussions on water resources distribution, off-grid power supply, and the power trade policy between the two nations. The KIEE delegation provided insights into their organization's work and extended an invitation to IEI to participate in their conferences. The occasion also included the exchange of mementos and the capture of group photographs. The Meet concluded with a gracious vote of thanks from Maj Gen (Dr) MJS Syali, VSM (Retd), Secretary & Director General, IEI.

A Women's Engineer Meet was organized on 28 December 2023. Dr Tanuja Sheorey, PDPM Indian Institute of Information Technology Design and Manufacturing, Jabalpur graced the occasion as Chief Guest and Dr Bhawna Jharia, HoD, Department of Electronics, Jabalpur Engineering College, Jabalpur and Dr Bharti Dass, Associate Professor & Director, Instrument Development and Service Centre, Jawahar Lal Nehru Krishi Vishwavidyalaya, Jabalpur were the Guests of Honour. Prof (Dr) Ms Shilpa Tripathi, Council Member, IEI presided over the function. Dr Poonam Sinha, Assistant Professor and Head of Department of Electronics & Communication Engineering, UIT Barkatullah University, Bhopal was





the Special Guest. The Meet was started by lighting of lamp followed by felicitation of the dignitaries on the Dias by Dr Mukta Bhatele, Convener Women's Engineer Meet. Dr Jyoti Gupta, Polytechnic College, Dr Agya Mishra, Jabalpur Engineering College and the dignitaries during their speech stressed upon the empowerment of the women in the field of technology and role of women engineers in upliftment of the economy of our country. Women engineers of different organizations/institutions participated in the meet and also presented their views.

The 104th Annual General Meeting of the Institution was held on December 29, 2023, which was attended by a large number of Corporate Members of the Institution. The Annual Report of IEI for the year 2022-2023 and Audited Accounts of IEI for the year ending 31 March 2023 were accepted and noted during the Annual General Meeting. Thereafter, the ceremonial function of installation of New President of IEI took place, when Dr G Ranganath took

has been a celebration of innovation, collaboration, and the unyielding spirit of the engineering community; As we reflect on the discussions and insights shared over the past three days, let us carry forward the momentum and continue working towards a future that embraces disruptive and interdisciplinary technologies for the betterment of society.

On the occasion, the Best IEI Students' Chapters Awards were presented in different categories as follows.

In the Category **Best Engineering College Students' Chapters**

AISSMS College of Engineering, Pune

Department of Electronics & Telecommunication Engineering

Best Engineering College Students' Chapter

Mepco Schlenk Engineering College, Sivakasi, Tamilnadu

Department of Mechanical Engineering

Second Best Engineering College Students' Chapter

Mepco Schlenk Engineering College, Sivakasi, Tamilnadu

Department of Computer Science & Engineering

Third Best Engineering College Students' Chapter

In the Category **Best Polytechnic College Students' Chapters**

Thaigarajar Polytechnic College, Salem, Tamilnadu

Best Polytechnic College Students' Chapter

Sri Ramakrishna Polytechnic College, Coimbatore, Tamilnadu

Second Best Polytechnic College Students' Chapter

PAC Ramasamy Raja Polytechnic College, Rajapalayam, Tamilnadu

Third Best Polytechnic College Students' Chapter

The **Certificate of Appreciation** for Students' Chapters in Engineering Colleges and in Polytechnics were presented as follows.

Certificate of Appreciation for Students' Chapter in **Engineering College at Northern Zone** for the highest enrollment of Students during 2022-23

Ganga Institute of Technology & Management, New Delhi

Certificate of Appreciation for Students' Chapter in **Polytechnic at Northern Zone** for the highest enrollment of Students during 2022-23

Buddha Polytechnic College Gorakhpur, Uttar Pradesh

Certificate of Appreciation for Students' Chapter in **Engineering College at Eastern Zone** for the highest enrollment of Students during 2022-23

Parala Maharaja Engineering College, Berhampur, Odisha

Certificate of Appreciation for Students' Chapter in **Polytechnic at Eastern Zone** for the highest enrollment of Students during 2022-23

Silchar Polytechnic, Silchar, Assam

Certificate of Appreciation for Students' Chapter in **Engineering College at Western Zone** for the highest enrollment of Students during 2022-23

Government College of Engineering, Nagpur, Maharashtra.

Certificate of Appreciation for Students' Chapter in **Polytechnic at Western Zone** for the highest enrollment of Students during 2022-23

Dr Punjabrao Deshmukh Polytechnic College, Amravati, Maharashtra

Certificate of Appreciation for Students' Chapter in **Engineering College at Southern Zone** for the highest enrollment of Students during 2022-23

Anurag University, Hyderabad, Telangana.

Certificate of Appreciation for Students' Chapter in **Polytechnic at Southern Zone** for the highest enrollment of Students during 2022-23

PAC Ramasamy Raja Polytechnic College, Rajapalayam, Tamilnadu

On the occasion, the Annual Technical Volumes and Special Publication pertaining to the Engineering Divisions and Committee; the Abhiyanta Bandhu, the IEI publication in national languages and the Student Journal, Volume 2, Issue 1, 2023 were released. Dr Rajeev Jain, Honorary Secretary, Jabalpur Local Centre, IEI, proposed the vote of thanks.



over the charge from Er Shivanand Roy as the President of The Institution of Engineers (India) for the session 2023-24 and delivered the Presidential Address.

During the Valedictory Function, Shri Ajoy Vishnoi, Member of Legislative Assembly, Madhya Pradesh graced the function as the Chief Guest and highlighted the contribution of engineering and technology in different facets of life. Er Rakesh Kumar Rathore, Chairman, Organizing Committee delivered



the welcome address. Brig Vipin Kumar Trivedi, Chairman, Jabalpur Local Centre addressed the august audience. Dr G Ranganath, the President for the session 2023-24 was introduced by Dr Hemant O Thakare, Past President, IEI. In his address, Dr Ranganath mentioned that the Engineering Congress

Presentation of IEI Industry Excellence Awards 2023



1. Hindustan Aeronautics Limited; 2. Bharat Electronics Limited; 3. Coal India Limited; 4. Salem Steel Plant; 5. BrahMos Aerospace; 6. SJVN Limited; 7. Shriram Rayons; 8. Avantel Limited; 9. TATA Consulting Engineers; 10. Engineers India Limited; 11. MECON Limited; 12. Holtec Consulting Private Limited; 13. Consulting Engineers Group; 14. Development Environergy Services Limited; 15. Epicons Consultants Private Limited

Presentation of IEI Industry Excellence Awards 2023



16. Afcons Infrastructure Limited; 17. Rail Vikash Nigam Limited; 18. KPC Projects Limited

Presentation of IEI Engineering Education Excellence Awards 2023



1. Sri Sivasubramaniya Nadar College of Engineering, Chennai; 2. Sona College of Technology, Salem; 3. Visvesvaraya National Institute of Technology, Nagpur; 4. Karunya Institute of Technology and Sciences, Coimbatore; 5. Rajalakshmi Engineering College, Chennai; 6. Thiagarajar Polytechnic College Salem; 7. Jharkhand Government Tool Room, Ranchi; 8. G. Narayanamma Institute of Technology & Science (For Women), Hyderabad; 9. BVRIT Hyderabad College of Engineering for Women, Hyderabad.

Felicitation of Eminent Engineering Personalities



Lt. Gen. Rajeev Chaudhry, VSM (Retd.)
Former Director General
Border Roads Organisation



Er U P Singh, IAS (Retd.)
Former Secretary, Union Ministry of Textiles
Government of India

Address by

Dr G Ranganath, President, IEI

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4. Use of Artificial Intelligence to improve the services: Artificial Intelligence (AI) is a wide ranging tool that enables people to rethink how we integrate information, analyse data and use the resulting insights to improve decision making - and already it is transforming every work of life. AI is not a futuristic vision but rather something that is here today and being integrated with and deployed into a variety of sectors. There are numerous examples where AI already is making an impact on the world and augmenting human capabilities in significant ways. I feel that introduction of AI on a pilot scale in some of the activities of IEI will help to enhance our insight and provide guidance to extend to other areas.
5. Encouraging Inclusivity and Motivating Young Minds: We will create platforms that encourage women engineers' participation and mentorship programs at the school level to promote technology-enriched learning. As Steve Jobs once said, "Technology is nothing. What's important is that you have faith in people, that they're basically good and smart, and if you give them tools, they'll do wonderful things with them."

Upholding Ethical Engineering and Global Excellence

Our commitment to ethical engineering practices is unwavering. Engineers must take pride in their contributions to the development of our nation

and society, always with a spirit of knowledge sharing, collaboration, and feelings of loyalty. As Frank Lloyd Wright emphasized, "The good building is not one that hurts the landscape, but one that makes the landscape more beautiful than it was before the building was built."

With the advent of Indian engineers and companies taking up projects overseas, we must align ourselves with global norms of certification, standards, and accreditation. In this context, we enthusiastically welcome the government's initiatives to formulate a Professional Engineers Bill, aimed at registering engineers through a rigorous assessment process. I envision our Institution taking a central role in the implementation of this bill, given our extensive reach and rich heritage.

Conclusion

In conclusion, I firmly believe that the current technological developments present us with unprecedented opportunities. Our Institution, with its robust credentials, competent teams, and dynamic leadership, is uniquely poised to address the challenges and opportunities that lie ahead. I seek your cooperation, support, and guidance as we work together to advance the Vision and Values of The Institution of Engineers (India) and propel it to new heights in the coming years. Together we can do what no individual can do. This is the power of synergy.

Jai Hind!

Jai Bharat

Memorial Lectures

The following Memorial Lectures, instituted by the Institution in memory of stalwarts in the engineering profession, are a salient feature of the Indian Engineering Congress organized annually by The Institution of Engineers (India). During the Thirty-eighth Indian Engineering Congress, these lectures were delivered by leading experts from diverse fields. Following are some excerpts of the lectures.

The 66th Sir M Visvesvaraya Memorial Lecture



Er Sumanth

Formerly MD (Mescom), Director Transmission, KPTCL, MD (Kavika)

Er Sumanth provided a succinct overview of Sir M Visvesvaraya's life, highlighting his significant contributions, achievements, and authored works. Exploring diverse domains, he delved into the practical applications of DC transmission, Electronics and Communication, Data Science, Renewable Energy, SCADA systems, and communication advancements. Expressing optimism about nuclear energy's cleanliness but acknowledging challenges like safety requirements and radioactive material disposal, he shed light on its cost implications. Stressing the need for emission reduction, Er Sumanth emphasized the 27% contribution of production and electricity to total emissions. Further, he delved into solar and wind power's plant load factor and advocated for increased promotion of renewable energy. Addressing disruptive innovation, advancements in transmission management, and their consequential effects, Er Sumanth provided a comprehensive insight into the evolving landscape of energy and technology.

The 45th Sir Rajendra Nath Mookerjee Memorial Lecture

Er Khemchand Dhimole

Technical Advisor to Chief Minister, Arunachal Pradesh

In an inspiring lecture, Er Dhimole heralded engineers as change-makers, shaping the world through cutting-edge technology and sustainable solutions. He underscored the essence of disruptive and interdisciplinary technology, embodying innovation and collaboration, challenging professionals to engineer a transformative future amidst boundless innovations. Emphasizing that disruptive engineering introduces groundbreaking technology, bringing significant advancements and paradigm shifts, he spotlighted Artificial Intelligence (AI) as a key player. AI, with its rapid analysis of vast design spaces, facilitates optimal solutions, fostering innovative and efficient design. Dhimole highlighted AI's role in predicting equipment failure through sensor data analysis, enabling proactive maintenance and minimizing downtime. Discussing the multifaceted future in engineering, he emphasized technological advancements, sustainability, interdisciplinary collaboration, and the need to address ethical and societal implications. Concluding with optimism, Er Dhimole envisioned an exciting journey of reimagining tomorrow through disruptive and interdisciplinary technologies, where the fusion of AI, biotechnology, nanotechnology, and other fields creates a limitless landscape of innovation.



The 32nd Dr Amitabha Bhattacharyya Memorial Lecture

Reimagining Tomorrow: Aerospace Advancement for National Security: Missiles, UAV's, Other Disruptive Technologies and BrahMos Experience

Dr Sudhir Kumar Mishra

Former Distinguished Scientist & Director General (BrahMos), DRDO, New Delhi & Ex CEO & MD, BrahMos Aerospace

In his captivating presentation Dr Mishra traced the evolution of rocket technology from ancient Indian roots, highlighting milestones like Tipu Sultan's use of the Congreve rocket in 1804. He delved into the historical significance of rocketry during World War II, the application of cruise missiles in the Iraq War, emphasizing the pivotal role of cutting-edge technology and skilled manpower in the aerospace field. Illustrating the functioning of cruise and ballistic missiles, Dr Mishra stressed that technological prowess is the master key for national security, societal stability, economic prosperity, and a knowledge-driven society. The spotlight of his presentation was the extraordinary success story of BrahMos, India's fastest and deadliest precision strike weapon, positioned as the country's premier first-strike capability. Touching on major disruptive technologies, space security, and renewable energy, Dr. Mishra underscored the critical role of science and technology in fostering comprehensive national development. He urged the young populace to embrace rapid change, envisioning a collective effort for sustainable growth, development, prosperity, and overall national security.



The 49th Bhaikaka Memorial Lecture

Physics Based Digital Twin

Prof (Dr) Santosh Ansumali

Jawaharlal Nehru Centre for Advanced Scientific Research, Engineering Mechanics Unit

In his lecture on "Physics-based Digital Twin," Prof Ansumali elucidated the concept of a digital twin as a detailed virtual replica mirroring the characteristics, behaviours, and functionalities of its physical counterpart. Focusing on creating realistic digital twins, he delved into algorithm coding, high-performance computing, Lattice Boltzmann structural integration, and tracking invariant slow manifold. The discussion spanned aero acoustics, multiphysics simulation, IoT-enabled healthcare, and the components of a digital twin, emphasizing Real Space and Virtual Space. Prof Ansumali explored data and model-driven Industry 4.0, Physics-driven Digital Twin, and practical applications like constructing a multi-stage gasifier, semiconductor manufacturing, healthcare applications, patient twinning, cardiovascular diagnosis protocols, Invasive Fractional Flow Reserve (FFR), virtual angiograms, and the application of Lattice Boltzmann theory for blood flow. This comprehensive insight unveils the transformative potential of physics-driven digital twins across various domains...



The 58th Nidhu Bhushan Memorial Lecture

Shri Sanjay Kumar Verma

Director (Commercial), MECON Limited

In his lecture, Shri Verma delved into the transformative potential of emerging interdisciplinary technologies poised to revolutionize diverse fields. Highlighting Bioinformatics, Genomics, Neurotechnology, Quantum Computing, Synthetic Biology, Fintech, Blockchain, Climate Modeling, Prediction, Carbon Capture, Storage, Smart Grids, Energy Storage, Circular Economy, and Waste Management, he showcased their profound impact on shaping the future. Emphasizing the role of disruptive and interdisciplinary technologies in fostering sustainable living, Shri Verma discussed the global perspective on the steel-making process and the future of decarbonization. He explained the utilization of Direct Reduced Iron (DRI) with Electric Arc Furnaces (EAF), large-scale carbon capture, utilization, and storage in the Blast Furnace-Basic Oxygen Furnace route. Providing insights into the roadmap for green steel production and the pivotal role of the Indian steel sector, Shri Verma unfolded a comprehensive vision for the future of industries and practices aligned with sustainability.



The 36th Dr Ajudhia Nath Khosla Memorial Lecture

Transitioning from Linear to Circular Economy: Charting a New Roadmap for Sustainable Development

Dr Arup Kumar Misra

Chairman, Pollution Control Board, Assam

In his compelling lecture, Dr. Misra illuminated the challenges of our uncertain era—environmental crises, climate change, epidemics, and population growth. Addressing the pressing need for sustainability, he explored emerging concepts like Biomimicry, Blue Economy, Zero Waste, Regenerative Agriculture, Sharing Economy, and Circular Economy. Delving into Circular Economy as a transformative approach, Dr. Misra emphasized its role in preserving capital, minimizing system risks, and efficiently managing finite stocks. He elucidated its elements, such as closed cycles, renewable energy, and systems thinking, stressing their significance in creating a continuous cycle for industrial value creation. Dr. Misra also discussed co-incineration of waste plastics, the transition from linear to circular economy, and associated challenges. Highlighting the economic, social, and environmental benefits, he outlined the building blocks of Circular Economy in India—Policy Framework and Circular Design. Despite acknowledging technological limitations, complexity in implementation, and scaling-up challenges, Dr Misra envisioned a sustainable future with Circular Economy at its core.



The 13th Prof C S Jha Memorial Lecture

Dr D K Singh

Vice Chancellor, Jharkhand University of Technology, Ranchi

In his insightful lecture, Dr. Singh illuminated disruptive technologies as transformative architects reshaping industries, norms, and propelling us into uncharted territories. Emphasizing the role of interdisciplinary technologies in shaping the future, he explored the vast scope of Quantum Computing, Biotechnology, and Artificial Intelligence. Dr Singh delved into the rapid pace of technological advancements, urging the audience to recognize and appreciate the breathtaking speed of change. Comparing the accelerating disruption in various industries to a seismic shift, he highlighted its role in reshaping landscapes and fostering an environment where adaptability is not just an advantage but a necessity.



Discussing the impact of technological disruption in healthcare, finance, manufacturing, education, retail, and transportation, Dr. Singh underscored the importance of interdisciplinary approaches in problem-solving. He advocated for a holistic understanding of interdisciplinary technologies, fostering creativity, out-of-the-box thinking, and addressing complex challenges through diverse perspectives and methodologies. Dr. Singh concluded by stressing the significance of enhancing knowledge and skills in an interdisciplinary context for anticipating and addressing emerging issues and optimizing resource utilization.

The 9th Dr K L Rao Memorial Lecture

Dam Safety in the context of Climate Change

Er G Kondala Rao

Chief Engineer (Retd), Public Health & Municipal Engineering, Government of Andhra Pradesh

Commencing his lecture with the construction and functionality of dams, the speaker delved into significant aspects such as large dams in India, dam safety, and the impact of recent climate change-related extreme weather events on dam failures. Er Rao extensively discussed Glacial Lake Outburst Floods (GLOFs) and their threats to India, attributing them to melting glaciers caused by global warming. He highlighted the evolving risk landscape for dams due to climate change, emphasizing the inadequacy of older designs to respond to shifting rainfall patterns and increased extreme weather events. Addressing India's climate change vulnerability, Er Rao introduced the Coalition for Disaster Resilient Infrastructure (CDRI) and Central Water Commission (CWC) norms for assessing dam safety. He underscored the exacerbation of dam failure risks due to climate change, emphasizing the need to incorporate consequence analysis in dam design for hazard profiling and disaster risk mitigation. Er Rao advocated for updated estimates of exposure and vulnerability, emphasizing the imperative of considering climate change in dam design for a resilient future.



Visionary Talk

Disruptive Technologies of Engineering in Future

Shri Jayant D Patil

Member of Executive Council of Management and Advisor, Defence and Smart Technologies to CMD, L&T

In a captivating talk, Shri Patil delved into the expansive realm of disruptive technologies poised to redefine our world. Covering crucial aspects of L&T's engineering landscape, Shri Patil sheds light on naval weapon systems, radar systems, C4ISR systems, avionics, robotics, unmanned systems, and defence shipbuilding. Emphasizing the pivotal role of skill development, he navigated through the startup ecosystem in India, underscoring the significance of technology-driven startups and their alignment with Industry 4.0. The heart of his discourse lies in the transformative force of technological disruption, reshaping traditional sectors and steering economic shifts. Shri Patil unraveled cutting-edge advancements, including document comprehension through National Language Processing, revolutionary 3D printing in construction, advanced composites application, and the intricacies of manufacturing alloys with complex metallurgy. Peering into the future, he unveiled innovations such as a fuel cell-based hybrid power supply system, Multihop routing in wireless networks, modular construction, and block-level outfitting.



Abhiyanta Bandhu is the IEI Publication in National Languages

First Best Paper Award

For Abhiyanta Bandhu 2022 (Hindi Language), **Er Harsh Kumar**, Er R S Sinha, Er M R Kumar, Er S C Chowdhury, Er S K Bhattacharjee for their paper titled

धमन भट्टी की क्षमता बढ़ाने और प्रदूषण कम के उपाय



Harsh Kumar

Second Best Paper Award

For Abhiyanta Bandhu 2022 (Marathi Language), **Er Rajendrakumar V Saraf** for his paper titled

जल शुद्धीकरण तंत्र ज्ञानाचा आढावा



Rajendrakumar V Saraf

Third Best Paper Award

For Abhiyanta Bandhu 2022 (Hindi Language), **Dr Narendra Kumar Gontia**, Dr Viral P Joshi, Hiren Dalsania for his paper titled

किसान ड्रोन लायेगा भारत में कृषि क्रांति



Narendra Kumar Gontia

IEI's Best Centre Award



Punjab & Chandigarh State Centre



Bareilly Local Centre



Telangana State Centre



Tripura State Centre



Coimbatore Local Centre

The H Nandy Memorial Award



Abhinandan Sharma

The Institution of Engineers (India) instituted the Award in the name of Late H Nandy, renowned Council Member, a doyen and eminent engineer in the field of Metallurgical and Materials Engineering and to be given away to a student who tops the list of Section B Examination of the Institution in the branch of Metallurgical & Materials Engineering. Considering both Summer and Winter examinations for the year 2021, **Mr Abhinandan Sharma** was selected for the award.

Best IEI Students' Chapters Awards

Best Engineering College Students' Chapters



AISSMS College of Engineering, Pune
(Department of Electronics and Telecommunication Engineering)



Mepco Schlenk Engineering College, Sivakasi
(Department of Computer Science & Engineering)

Best Polytechnic College Students' Chapters



Thiagarajar Polytechnic College, Salem

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.

SAIL Award

For the year 2023, **Satyendra Sudershan** and Bhawna Khalkho for their paper titled '*Beneficiation of Iron Ore - Existing Best Practices / Technologies and Way Ahead*'.



Satyendra Sudershan

Dr M Visvesvaraya Award

For the year 2023, **Anand Tiwari** for their paper titled '*Improvement in productivity of Blast Furnaces - Way forward*'



Anand Tiwari

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.

Coal India (J G Kumaramangalam Memorial) Award

For the year 2023, **Ashok Kumar**, Sanjoy Gorain, Sahendra Ram and Dheeraj Kumar for their paper entitled '*Estimation of Side Spalling in Bord and Pillar Mining Method based on Field and Simulation Studies*'.



Ashok Kumar

Release of Annual Technical Volumes



Release of Technical Proceedings & Souvenir



Release of Students' Journal



Release of Abhiyanta Bandhu



Recipients of IEI Prizes & Awards

One of the important events of the Congress was the presentation of prizes and awards to the authors whose papers were published in the Journals of The Institution of Engineers (India), co-published by Springer Nature during the year 2022 and were adjudged the best in respective fields. Details of prizes and awards, the titles of the winning papers along with the authors' names are listed hereunder.

The President of India's Prize

Mangesh R Phate, Pratik P Gaikwad and Shraddha B Toney for their Paper titled 'Analysis of Seat to Head Transmissibility of the Seated Human Body using Artificial Neural Network', *Journal of The Institution of Engineers (India)*: Volume 103, Series C, Issue 4, Pages 557–571.



Union Ministry of Energy – Department of Power Prize

Mohan P Thakre and Akbar Ahmad for their Paper titled 'Interline Power Flow Controller (IPFC) Deployment in Long Transmission Lines and its Effects on Distance Relay', *Journal of The Institution of Engineers (India)*: Volume 103, Series B, Issue 2, Pages 491–505.



The Institution Prizes (1)

K Aseem and S Selva Kumar for their Paper titled 'A PWM-based Sliding Mode Control Scheme for Isolated Solar Photovoltaic Systems', *Journal of The Institution of Engineers (India)*: Volume 103, Series B, Issue 2, Pages 313–328.



Sir Arthur Cotton Memorial Prize

Vardhan Garg, Arth J Patel and Sharadkumar Purohit for their Paper titled 'Experimental Investigations on Axial-Flexural Behaviour of Slender Concrete Filled Steel Tubular Columns', *Journal of The Institution of Engineers (India)*: Volume 103, Series A, Issue 4, Pages 1089–1100.



The Institution Prizes (2)

S Suhael Ahmed, H N Girisha and **R Keshavamurthy** for their Paper titled 'Impact of Hot Rolling on Mechanical Characteristics of AA7075/TiB2/Graphite Hybrid Composites', *Journal of The Institution of Engineers (India)*: Volume 103, Series D, Issue 1, Pages 191–201.



Pandit Madan Mohan Malaviya Memorial Prize

Raya A K Aswad and **Bassim M H Jassim** for their Paper titled 'Detection and Localization of the Stator Winding Inter-Turn Fault in Induction Motors based on Parameters Estimation using Genetic Algorithm', *Journal of The Institution of Engineers (India)*: Volume 103, Series B, Issue 2, Pages 405–414.



K F Antia Memorial Prize

Shreya Chaurasia and Navneet Munoth for their Paper titled 'Carbon Sequestration Potential of Urban Trees: A Case of Kolar Area in Bhopal City, India', *Journal of The Institution of Engineers (India)*: Volume 103, Series A, Issue 2, Pages 359–374.



Sir Thomas Ward Memorial Prize

Swavankumar Bethi and **Nageswara Rao Moparthy** for their Paper titled 'An Improved Gossip based Ad-hoc On-Demand Distance Vector Protocol for Efficient Neighbour Node Discovery', *Journal of The Institution of Engineers (India)*: Volume 103, Series B, Issue 2, Pages 351–360.



Corps of Engineers Prize

Akash Jain, Hans Raj Kandikonda and Arun Kumar Saxena for their Paper titled 'Design and Simulation of Ring-Slot Type Brake Parachute', *Journal of The Institution of Engineers (India)*: Volume 103, Series C, Issue 4, Pages 717–731.



Shrimati Saroma Sanyal Memorial Prize

Shah Izhar Ahmed, Ashwani Kumar Sonkar, Nawal Kishore, Ramita Varshney and Dalchand Jhariya for their Paper titled 'Hydrogeochemical Characterization and Qualitative Assessment of Groundwater in Jampali Coal Mining Area, Chhattisgarh, India', *Journal of The Institution of Engineers (India)*: Volume 103, Series A, Issue 4, Pages 1109–1125.



The Railway Board's Prize (1)

Digvijay B Kanase and H T Jadhav for their Paper titled 'Three-Phase Distribution Static Compensator for Power Quality Improvement', *Journal of The Institution of Engineers (India)*: Volume 103, Series B, Issue 5, Pages 1809–1826.



Dr Rajendra Prasad Memorial Prize

F Sarkar for his Paper titled 'Challenges Faced During the Implementation of Safety Management Plan (SMP) in Indian Underground Hard Rock Mines: A Field-Based Approach', *Journal of The Institution of Engineers (India)*: Volume 103, Series D, Issue 1, Pages 363–373.



The Railway Board's Prize (2)

S V Chaitanya, D Y Dhande and A K Jeevanantham for their Paper titled 'Complex Assembly Analysis for Geometric and Dimensional Tolerance to Obtain Selective Assembly from Partitioned Bins Using a Multi-objective Approach to Control Clearance Variation of IC Engine', *Journal of The Institution of Engineers (India)*: Volume 103, Series C, Issue 4, Pages 663–688.



Sir Ganga Ram Memorial Prize

Saurabh Joshi, Mansi Garg and Somen Jana for their Paper titled 'Thermal Activated Adsorbent from D. sissoo Sawdust for Fluoride Removal: Batch Study', *Journal of The Institution of Engineers (India)*: Volume 103, Series E, Issue 2, Pages 323–337.



E P Nicolaides Prize

Resmi Giriraju, Amlan Kumar Sengupta and Radhakrishna G Pillai for their Paper titled 'Tensile Behaviour of Corroded Strands in Prestressed Concrete Systems', *Journal of The Institution of Engineers (India)*: Volume 103, Series A, Issue 3, Pages 867–879.



Dr Triguna Charan Sen Prize

Anu Mishra and Bhupendra Singh Butola for their Paper titled 'Enhancement in Dye Decolorization and Stain Removal Property of Cotton Fabric Coated with a Combination of Different TiO₂ Forms (Both P-25 and Anatase TiO₂)', *Journal of The Institution of Engineers (India)*: Volume 103, Series E, Issue 2, Pages 209–218.



Brij Mohan Lal Memorial Prize

Tribikram Mohanty, Ankit Kumar, Prasanna Kumar Acharya, Sanjaya Kumar Patro and Purnachandra Saha for their Paper titled 'Performance of Structural Geopolymer Concrete Utilising Ferrochrome Ash and Fly Ash as Source Material', *Journal of The Institution of Engineers (India)*: Volume 103, Series A, Issue 4, Pages 1183–1194.



Prof R C Singh Prize

Ramesh Chandra Nayak and Manmatha K. Roul for their Paper titled 'Technology to Develop a Smokeless Stove for Sustainable Future of Rural Women and also to Develop a Green Environment', *Journal of The Institution of Engineers (India)*: Volume 103, Series A, Issue 1, Pages 97–104.



Tata Rao Prize

Jayadeep Srikakolapu, Sabha Raj Arya, Rakesh Maurya and Shailendra Sharma for their Paper titled 'Predictive Control-Based DSTATCOM with a Multi-Criterion Decision-Making Method', *Journal of The Institution of Engineers (India)*: Volume 103, Series B, Issue 6, Pages 2097–2110.



Rekha Nandi and Bhupesh Nandi Prize

Umesh Agarwal, Narendra Singh Rathore, Naveen Jain and Manoj Kumawat for their Paper titled 'A Review on India's Solar Energy Prospective: Potential, Environmental Protection and Policies Framework', *Journal of The Institution of Engineers (India)*: Volume 103, Series A, Issue 4, Pages 1299–1313.



Aerospace Engineering Division Prize

Sreelal Sreedharan Pillai, Bibin Varghese, Sreekumar Sankarattil, Vinod Padmanabha Rao and M Narayanan Namboodiripad for their Paper titled 'Network-of-Things (NoT) in Avionic Systems', *Journal of The Institution of Engineers (India)*: Volume 103, Series C, Issue 5, Pages 1217–1222.



Agricultural Engineering Division Prize

Aman Kumar, Palani Kandasamy and Ivi Chakraborty for their Paper titled 'Analysis of Foaming Properties of Mango Pulp for Foam-mat Drying: Impact of Egg Albumin Concentration and Whipping Time', *Journal of The Institution of Engineers (India)*: Volume 103, Series A, Issue 3, Pages 717–724.



Architectural Engineering Division Prize

V M Joshima and M A Naseer for their Paper titled 'Temperature Gradient across Masonry Walls under Transient Conditions: Case Studies from a Warm Humid Climate', *Journal of The Institution of Engineers (India)*: Volume 103, Series A, Issue 2, Pages 663–675.



Computer Engineering Division Prize

Sanghamitra De, Mridul Sankar Barik and Indrajit Banerjee for their Paper titled 'Impact Estimation of Security Attack and Mitigation Strategy using Goal-Based Threat Modeling in a Peer-to-Peer Cloud System', *Journal of The Institution of Engineers (India)*: Volume 103, Series B, Issue 5, Pages 1845–1862.



Marine Engineering Division Prize

Koushik Bhui, Sugata Hazra, Tuhin Bhadra and Vengatesan Venugopal for their Paper titled 'Spatio-Temporal Variability of Tidal Velocities in the Rivers of the Indian Sundarban Delta: A Hydrodynamic Modelling Approach', *Journal of*



The Institution of Engineers (India): Volume 103, Series C, Issue 3, Pages 493–507.

Metallurgical and Materials Engineering Division Prize

Shashi Prakash Dwivedi, Manish Maurya and Shubham Sharma for their Paper titled 'Study of CCLW, Alumina and the Mixture of Alumina- and CCLW-Reinforced Aluminum-Based Composite Material with and Without Mechanical Alloying', *Journal of The Institution of Engineers (India)*: Volume 103, Series D, Issue 1, Pages 319–331.



Production Engineering Division Prize

R Naveenkumar, S Shankar, R Nithyaprakash, D Hariprasath, G Moulidaman and C Prakash for their Paper titled 'Evaluation of the Efficacy in Ergonomically Designed Handsaw to Minimize the Muscular Load on Arm and Shoulder Muscles among Carpenters', *Journal of The Institution of Engineers (India)*: Volume 103, Series C, Issue 5, Pages 1125–1132.



Institution Prize (Donated by Col G N Bajpai)

Darshit P Suratwala, Varsha Harpale and Deepti Khurge for their Paper titled 'Pollutant Reduction Techniques Used for Nonroad Combustion Ignition Engines', *Journal of The Institution of Engineers (India)*: Volume 103, Series C, Issue 6, Pages 1523–1534.

Corps of Electrical and Mechanical Engineers' Prize

Ketan Badogu, Raman Kumar and Ranvijay Kumar for their Paper titled '3D Printing of Glass Fiber-Reinforced Polymeric Composites: A Review', *Journal of The Institution of Engineers (India)*: Volume 103, Series C, Issue 5, Pages 1285–1301.

Dr Jai Krishna Prize

Ourdia Ider, Hocine Hammoum, Karima Bouzelha and Amar Aliche for their Paper titled 'Evaluation of the Behaviour Coefficient of an Elevated RC Tank', *Journal of The Institution of Engineers (India)*: Volume 103, Series A, Issue 1, Pages 1–15.

Sir Rajendra Nath Mookerjee Memorial Prize

D P Archana, H N Jagannatha Reddy, R Prabhakara, M U Aswath and A Chandrashekar for their Paper titled 'Processing and Properties of Biodegradable Composites to Strengthen Structures', *Journal of The Institution of Engineers (India)*: Volume 103, Series C, Issue 1, Pages 39–52.

Nawab Zain Yar Jung Bahadur Memorial Prize

Andres Marquez, C Persad and C Maharaj for their Paper titled 'A Sustainable Method to Grind Plastic Scraps for more Efficient End Use as Additives', *Journal of The Institution of Engineers (India)*: Volume 103, Series A, Issue 2, Pages 341–348.

Hindustan Zinc Limited Prize

P K Fedotov, A E Senchenko, K V Fedotov and A E Burdonov for their Paper titled 'Hydrometallurgical Processing of Gold Ore', *Journal of The Institution of Engineers (India)*: Volume 103, Series D, Issue 2, Pages 549–562.

N K Iyenger Memorial Prize

Xu Yan, Xixiong Wang, Zhongyi Zhang, Tao Yu and Huawei Han for their Paper titled 'Application of Structure with Negative Poisson's Ratio for Vibration Isolation of Pipeline Supports', *Journal of The Institution of Engineers (India)*: Volume 103, Series C, Issue 3, Pages 535–542.

Suchit Kumar Ghosh Memorial Prize

Duo Wu and Laijun Liu for their Paper titled 'Study on Iterative Modification Method of Parameters in the Health Monitoring of Large-Span Continuous Rigid Frame Bridges', *Journal of The Institution of Engineers (India)*: Volume 103, Series A, Issue 1, Pages 271–281.

Digitization of Chemical Process Industry

Tiruchirappalli Local Centre of the Institution organized the Thirty-eighth National Convention of Chemical Engineers during 07-08 September 2023 at National Institute of Technology Tiruchirappalli under the aegis of Chemical Engineering Division Board [CHDB], IEI. A National Conference was also organized concurrently on the theme **Digitization of Chemical Process Industry**. The National Convention intended to provide participants with a window into the promising technologies in digitization of chemical process industry as well as to extend opportunities to academicians, research scholars, and working professionals by providing an environment for sharing their knowledge, understanding, innovations, and inventions. Er S. M. Ramanathan, General Manager in Charge of BHEL, Tiruchirappalli, graced the inaugural function as the Chief Guest and Dr G Aghila, Director, NIT Tiruchirappalli graced the occasion as the Guest of Honour. Er Shivanand Roy, the then President, IEI, in his address elucidated the role of digitization and its future scope. Prof (Dr) Ms Shilpa Tripathi, Chairman, Chemical Engineering Division Board, IEI [Session 2022-23], presided over the inaugural function.

The programme commenced with the welcome address delivered by Er B Balasubramanian, Chairman, Tiruchirappalli Local Centre, IEI [Session 2021-23]. Prof (Dr) M Arivazhagan, HoD, Department of Chemical Engineering, NIT Tiruchirappalli, provided an overview of the National Convention and the National Conference. Er Shivanand Roy, in his address highlighted the importance of Chemical

Engineering profession & emphasized the role of digitization and its future scope. Er S M Ramanathan, along with other dignitaries, inaugurated the National Convention by lighting the lamp and addressed the august audience. Dr G Aghila, Director, NIT Tiruchirappalli, discussed the pivotal significance of fostering collaboration between the industry and higher education institutes, particularly in the realm of automating process industries. Prof (Dr) Ms Shilpa Tripathi, delivered her address. On the occasion, Mr Ashok Panjwani, Executive Director, UPL Limited and President, UPL University of Sustainable Technology, Ankaleshwar; Shri K S Kasi Viswanathan, Managing Director, Seshasayee Paper & Boards Limited, Cauvery RSPO, Erode and Dr Raghunathan Rengaswamy, Marti Mannarriah Gurunath Institute Chair Professor, Dean, Global Engagement, Core Member of the Robert Bosch Center for Data Science and AI, (RBCDSAI), IIT Madras were felicitated as eminent engineering personalities in recognition of their eminence and contribution to the profession of Chemical Engineering. On the occasion, the IEI Young Engineers Award for the year 2023-24 in Chemical Engineering Division was presented to; Dr Siksha Swaroopa Kar, Principal Scientist, Flexible Pavement Division, CSIR-Central Road Research Institute, Mathura Road, New Delhi; Dr. Noel Jacob Kaleekkal, Assistant Professor-I, Membrane Separation Group, Department of Chemical Engineering, National Institute of Technology Calicut and Dr Himanshu Pradeep Kohli, Assistant Professor, Chemical Engineering Department, R N G Patel Institute of Technology (RNGPIT), Bardoli, Gujarat, in recognition of their contributions in the field of Chemical Engineering. Dr S Karupphasamy, Organizing Secretary of the event, proposed the vote of thanks at the end of the inaugural session.

Dr G A Pathanjali, Managing Director of High Energy Batteries, Mathur, Trichy, delivered the Acharya Prafulla Chandra Ray Memorial Lecture. Industry professionals from SPB, TNPL, Dalmia Cements, BHEL, Monit pro solutions, and experts from IIT, NIT, IGCAR Kalpakkam, and NMRL, Mumbai, delivered invited talks on the digitization journey in process industries.

They explored the past, present, and future, highlighting challenges and development prospects. The two-day event included a panel discussion with industry and institute leaders, along with technical sessions where research scholars shared their findings.

The Plenary Lecture was delivered by Dr Raghunathan Rengaswamy on the topic 'Artificial Intelligence for Process System Engineering (PSE)'. Dr Raghupatruni Bhima Rao, Presently Chairman, CHDB, IEI and Formerly CSIR Chief Scientist, delivered invited lecture on 'Necessity in Digitization for Exploration, Exploitation, Enrichment & Extraction of Rare Earth Beach Placer Minerals'. Er D Radhakrishnan, Chief Manager, Pulp and Paper Operations, Seshashayee Paper & Board Limited, Erode, delivered invited lecture on 'Digitization in Pulp and Paper Industry'. Er R Rajamohan, Senior GM, Dalmia Cements Limited, Dalmiapuram, delivered invited lecture on 'Automation & Digitalizing in Cement Industry'. Prof (Dr) N Sivakumaran, Department of Instrumentation and Control Engineering, NIT Trichy,

delivered invited lecture on 'Digitization of the Chemical Process Industry'. Er Ramesh Rajasekaran, Director, MonitPro Solutions Private Limited delivered an invited lecture on 'Process Safety Management'. Er B Shanmugarajan, Welding Research Institute, BHEL, Trichy, delivered invited lecture on 'Digitization for Non-contact Inspection in Material Processing'. Er R Rajalingam, Tamilnadu Newsprint and Papers Limited, Karur, TN, delivered invited lecture on 'Digitization in



Paper Industry –TNPL Leads the Way'. Dr Siksha Swaroopa Kar delivered a lecture on 'Innovative & Indigenous Pothole Repair Solutions: Concept to Reality'. Dr Himanshu Pradeep Kohli delivered lecture on 'Application of Computational Approach in the Area of Membrane-based Separation'. Dr Noel Jacob Kaleekkal delivered lecture on 'Membrane Distillation as a Potential Technology for Water Recovery'.

Furthermore, three technical sessions centered on "Recent Developments in Chemical Engineering," "Artificial Intelligence and Machine Learning," and "Modelling and Simulation" featured the presentation of 18 papers. Topics covered were diverse, including "Canteen Wastewater Treatment: An NIIST Model," "Performance Evaluations of Energy Efficient Biogas Reactor," and "Operational Emission Characteristics Analysis of Organic Waste Azolla-corn Husk Biogas Powered Diesel Engine." Other notable papers explored areas such as the impact of 3D printing on bio-electrochemical systems, computational assessment of activated sludge models, and the digitization of chemical process flow diagrams using AI and neural networks.

In the valedictory function, Er D Banu Prasad, Chief GM, Board Production, TNPL, Unit II, Trichy, honoured the event as the Chief Guest. Dr G A Pathanjali, Managing Director, High Energy Batteries, Mathur, Trichy, was the Guest of Honour. The vote of thanks was extended by Dr Kevin Ark Kumar, Honorary Secretary, Tiruchirappalli Local Centre, IEI [Session 2021-23].

The recommendations arising from the two-day deliberation are as follows:

Explore the significance and applicability of AI techniques in next-generation process systems engineering applications; Focus on various facets of Process Systems Engineering (PSE) and examine the cross-cutting impact of AI; Identify specific industrial domains such as Pulp and Paper Industry, Cement Industry, and Chemical Process Industry where digitization can be effectively applied.

IEI Celebrates Energy Conservation Day

The Energy Conservation Day was celebrated by the Institution on December 14, 2023. Brief accounts of celebration as received from various Centres are reported hereunder.

STATE CENTRE

Jammu & Kashmir

The Jammu and Kashmir State Centre of The Institution of Engineers (India) observed Energy Conservation Day 2023 on 14 December 2023 in Srinagar, organizing a Seminar to foster collaboration, share knowledge, and devise actionable strategies for energy conservation in the region through innovative engineering interventions. Dr Jahangeer Ali, Honorary Secretary of the Jammu &



Kashmir State Centre, IEI, delivered insightful opening remarks, setting the tone for the event. Chairman Er Iftikhar Ahmad Hakeem, in his welcome address, underscored the imperative need for collaborative efforts in energy conservation, emphasizing its regional significance. The occasion was graced by Chief Guest Shri Saurabh Bhagat, IAS, Commissioner/Secretary, Government of Jammu & Kashmir. Er Bashir Ahmad Dar, Former Secretary (Technical), Kashmir Power Distribution Corporation Limited (KPDCL), provided a comprehensive overview of energy conservation practices specific to the local landscape. Dr. Sameer Hamdani, Senior Architect, and Heritage Expert elucidated on architectural and heritage interventions for sustainable energy practices. Er Ferdous Ahad Bhat, Assistant Executive Engineer (Mechanical), City Drainage, Srinagar Municipal Corporation, delved into mechanical engineering interventions for enhanced energy efficiency. Chief Engineer, KPDCL, Er Javed Yousuf Dar shared his valuable insights into promoting energy conservation. Dr Jahangeer Ali concluded the event with a vote of thanks.

LOCAL CENTRES

Agra



Agra Local Centre, IEI, marked Energy Conservation Day 2023 on 15 December, 2023 in Agra. Dr Tanveer Qamar, Associate Professor at Agra College, spoke

eloquently on conserving energy in electric appliances, application of solar energy in agriculture etc. Er Anil Kumar Goyal, Chairman, extended a warm welcome. Er Rajnesh Kumar Yadav, Honorary Secretary, concluded the event with a vote of thanks.

Ahmednagar

On 18 December, 2023, Ahmednagar Local Centre, IEI, celebrated Energy Conservation Day in Ahmednagar. Er A B Chaudhuri, Ex Chief Engineer-Design at Crompton Greaves Limited, Ahmednagar, graced the event as the Chief Guest. Dr B C Kharbas, Head, Department of Electrical Engineering, Government Polytechnic, Ahmednagar deliberated a presentation on 'Energy Conservation' and discussed India's significant role as both a major energy consumer and producer globally. He delved into energy conservation, energy audit concepts, and the roles of Bureau of Energy Efficiency (BEE) and Maharashtra Energy Development Agency (MEDA). The discussion

witnessed valuable contributions from industry experts, including Er Dilip Athav, Plant Head at L&T Electrical and Automation, MIDC Ahmednagar,



and Er Amrut Mutha, a Progressive Farmer. Mutha shared his experience of producing electrical energy from bio gas for daily needs and farming. Er Manohar Mukund Anekar, Chairman,

initiated the event with a welcoming address, and Er Abhay Krishnarao Raje, Honorary Secretary, concluded the gathering with a vote of thanks, expressing gratitude for the enriching discussions on energy conservation and the optimal use of electricity.

Bathinda

Bathinda Local Centre, IEI, commemorated Energy Conservation Day 2023 on 14 December 2023 through an online event graced by the esteemed Chief Guests, Prof (Dr) Tara Singh Kamal, Former Vice President, IEI, and Er R R Tanwar, Council Member, IEI. Er Karatar Singh Brar, Chairman, warmly welcomed participants, emphasizing the day's significance. The Keynote speaker, Dr Manpreet Kaur, Electronics and Communication Engineering Department, Yadavindra College of Engineering, Punjab highlighted the importance of solar, geothermal, and biomass energy sources, urging increased reliance on renewables. Dr Jagtar Singh, Former Chairman, contributed significantly to the event. Dr Harsimran Singh, Honorary Secretary, brought the session to a close with a warm vote of thanks, expressing gratitude to the esteemed guests and participants. He underscored the shared dedication towards harnessing renewable energy for a sustainable future.

Bareilly

Bareilly Local Centre, IEI, observed Energy Conservation Day 2023 on 14 December 2023 in Bareilly. Er Raj Goel, Chairman, welcomed attendees, emphasizing the day's goal of fostering awareness on global warming and climate change while advocating for energy conservation initiatives. Er Suresh Chandra Sundrani, Past Chairman, expounded on the pivotal role



of energy conservation in sustainable development. He highlighted the day as a collective reminder of our responsibility to preserve natural resources, combat climate change, and innovate for a greener

world. Er Pradeep Kumar Madhwar, Honorary Secretary, closed the event with a gracious vote of thanks, acknowledging the shared commitment to a sustainable and energy-conscious future.

Faridabad

Faridabad Local Centre, IEI, observed Energy Conservation Day 2023 on 14 December 2023 in Faridabad. Er Sandeep Handa, Immediate Past

Chairman, delivered the welcome address, emphasizing the significance of the occasion. Expert speakers included Dr Arvinda Gupta, Professor & Chairperson, Mechanical Engineering Department, J C Bose University



(YMCA), and Dr R K Yadav, Additional General Manager, Pragati Power Corporation Limited, Delhi. Dr Gupta discussed climate change mitigation goals, stressing the importance of energy conservation awareness. Er

Inderdeep Singh, Honorary Secretary, Faridabad Local Centre, IEI, expressed heartfelt appreciation in his closing remarks, underscoring the collective responsibility for energy conservation that resonated throughout the event.

Jammu

The Jammu Local Centre of The Institution of Engineers (IEI) observed the Energy Conservation Day 2023 on 14 December 2023 through an online seminar. Focused on 'Energy Efficiency and Conservation: A Path for Sustainability,' the event aimed to raise awareness about the crucial aspects of energy saving. Prof (Dr) Ms Bhawna Sharma, Chairman of Jammu Local



Centre, IEI, emphasized the significance of energy conservation, promoting the benefits of energy efficiency, and reducing our carbon footprint. She urged

the adoption of energy-efficient technologies and lifestyles for a cleaner, greener future. Keynote Speaker Mr Santosh Takale, Senior Scientist from Bhabha Atomic Research Centre, Mumbai, highlighted the role of green energy and artificial intelligence in minimizing energy usage for climate change mitigation. Er Sachin Tickoo, Honorary Secretary, Jammu Local Centre, IEI, advocated for minimal energy usage to lower environmental impact and concluded the event with a vote of thanks.

Kochi

Kochi Local Centre, IEI, commemorated Energy Conservation Day 2023 on 14 December 2023 through an online webinar titled 'Energy Conservation and Management: A Transformative Path to a Sustainable Future.' Er G Velayudhan Nair, Chairman, extended a warm welcome to the virtual audience. Prof (Dr) G Madhu, Council Member, IEI, introduced the Chief Guest and speaker, Dr Kevin Ark Kumar, Manager, Material Management HPBP, Bharat Heavy Electrical Ltd, Trichy. Dr Kumar articulated the critical importance of energy management, highlighting the environmental and resource benefits of energy conservation. He urged individuals and organizations to embrace sustainable practices. Er T C Prasanth, Honorary Secretary, expressed sincere appreciation to all participants, bringing the event to a close with gratitude for their invaluable contributions to the discourse on energy conservation and sustainable practices.

Madurai

Madurai Local Centre, IEI, observed the Energy Conservation Day 2023 on 14 December 2023 in Madurai. Prof (Dr) S Durairaj, Principal of SRM Madurai



College of Engineering and Technology, Pottapalayam, graced the event as the Chief Guest, delivering an insightful lecture on energy conservation. Prof (Dr) P Udhaya Kumar, Chairman,

Madurai Local Centre, IEI, extended a warm welcome, setting the stage for the occasion. Er A T Baskar, Honorary Secretary, introduced the esteemed Chief Guest. Concluding the event, Er A T Baskar proposed the vote of thanks, expressing gratitude for the enriching insights shared and emphasizing the importance of collective efforts in energy conservation.

North Bengal

The North Bengal Local Centre, IEI, observed the Energy Conservation Day 2023 on December 14, 2023 in Jalpaiguri. In the welcome address, Er Shrayasi Datta, Honorary Secretary, highlighted the significance of the occasion. Er Nimai Mukhopadhyay emphasized the critical role of energy conservation in protecting the environment, reducing greenhouse gas



emissions, and saving money through decreased electricity usage. Er P K Saha emphasized the pressing need for action, highlighting the depletion of finite resources such as coal and petrol attributed to population growth and escalating energy

consumption. Urging collective responsibility, he called upon everyone to actively participate in conserving energy, emphasizing its critical role in securing a sustainable future for generations to come. Chairman, Prof (Dr) Amitava Ray extended gratitude with a thoughtful vote of thanks, underscoring the collective responsibility for a sustainable energy future.

Rourkela

Rourkela Local Centre, IEI, celebrated the Energy Conservation Day 2023 on 14 December 2023 via hybrid mode. Shri Diptankar Mahapatra, General Manager, Plate Mill, SAIL, Rourkela Steel Plant, enlightened attendees with



a lecture titled 'Save Energy, Save World.' He elucidated the Energy Conservation Act, the establishment of the Bureau of Energy Efficiency (BEE) under the Ministry of Power, Government of

India, and emphasized the limited nature of conventional energy sources. Stressing the importance of energy conservation in addressing climate change, he underscored the need for collective action. Earlier, Er Santosh Kumar Polaki, Chairman, Rourkela Local Centre, IEI, initiated the event with a welcome address.

Trichur

Trichur Local Centre, IEI, observed Energy Conservation Day 2023 on 14 December 2023 in Trichur with a Seminar on 'Environmental, Social, and Governance (ESG) Opportunity to Embrace for a Better Tomorrow.' Er Kumar P R, Honorary Secretary, outlined the seminar's theme, underscoring the imperative to develop sustainable and affordable green energy for all. Er Thomas John V, Chairman, emphasized the pressing need to reduce carbon emissions and commit to sustainability, aligning with the objectives of cleaner



energy. Er V Narayanan, Past Honorary Secretary, Trichur Local Centre, IEI, proposed the vote of thanks, encapsulating the collective commitment to a greener, more sustainable future.

IEI Celebrates World Habitat Day

Theme

Resilient Urban Economies. Cities as Drivers of Growth and Recovery

The World Habitat Day was celebrated by the Institution on October 2, 2023. Brief accounts of celebration as received from various Centres are reported hereunder.

STATE CENTRES

Andhra Pradesh

Andhra Pradesh State Centre, IEI, observed World Habitat Day 2023 on 03 October 2023 in Vijayawada. Dr P Polu Raju, Professor, KLU and Past Chairman of Indian Concrete Institution, stressed the necessity for eco-friendly construction techniques to address growing habitation needs. Highlighting cities' vital role in economic growth, employment, innovation, and cultural exchange, he explored factors like population, employment, infrastructure, revenue generation, industries, diversity, and transportation for sustainable urban development. Prof (Dr) Venkata Sriram Chintamaneni, Chairman, Andhra Pradesh State Centre, IEI welcomed the audience, and Prof (Dr) M L S Deva Kumar, Honorary Secretary, Andhra Pradesh State Centre, IEI proposed the vote of thanks. The event fostered awareness on eco-friendly construction and the integral role of cities in fostering sustainable economies.

Delhi

Delhi State Centre, IEI, observed World Habitat Day 2023 on 02 October 2023 through online platform. Dr Santosh Kumar Singh, Chairman, Delhi State Centre, IEI extended a warm welcome and emphasized the fundamental right to shelter for every human being. He shared the historical significance of the day, initially celebrated in 1986 in Kenya under the theme 'Shelter is my right.' Chief Guest of the function, Prof Chandan Ghosh, Professor, NIDM provided valuable insights into current global challenges, such as the COVID-19 pandemic and climatic crisis, highlighting the resilience demonstrated through adaptability and innovation. Prof Ghosh underscored the importance of building resilient urban economies founded on sustainability and adaptability, prioritizing inclusive investments in infrastructure like education and healthcare. He emphasized the power of technology and sustainable practices in shaping the cities of tomorrow for a brighter and more sustainable future for all urban dwellers and future generations. Er Rajesh Sharma, Honorary Secretary, Delhi State Centre, IEI delivered the vote of thanks, concluding the event on a note of commitment to fostering a sustainable and inclusive urban future. The session resonated with a call for collective efforts to address the challenges posed by urbanization, emphasizing the need for thoughtful investments in infrastructure, technology, and sustainable practices to create resilient cities that leave no one behind. The celebration served as a platform to reflect on and discuss strategies for building cities that are not only adaptive but also environmentally conscious and socially inclusive, ensuring a harmonious and sustainable future.

Kerala

Kerala State Centre, IEI, commemorated World Habitat Day 2023 on 04 October 2023 in Thiruvananthapuram. Prof (Dr) M Jayaraju, Chairman, Kerala State Centre, IEI [Session 2021-23], welcomed participants and introduced the Speaker, Prof (Dr) Manoj Kumar K, Principal, Kerala State Institute of Design. Dr Manoj delivered an insightful lecture

on the theme. Er Roy Mathew, Honorary Secretary, Kerala State Centre, IEI [Session 2021-23] expressed gratitude in the vote of thanks, concluding the event on a thoughtful note. The session emphasized the importance of fostering sustainable living environments and the role of thoughtful design in addressing the challenges of urban habitation.

Telangana

Telangana State Centre, IEI, observed World Habitat Day 2023 on 02 October 2023 through virtual platform. Er P Surya Prakash, Council Member, IEI, served as the Keynote Speaker, delivering an insightful lecture on the theme. Er B Brahma Reddy, Chairman, Telangana State Centre, IEI [Session 2021-23], extended a warm welcome and presided over the event. Dr K Seetha Ram Babu, Joint Honorary Secretary, introduced the Keynote Speaker, emphasizing the significance of the occasion. Dr G Venkata Subbaiah, Honorary Secretary, Telangana State Centre, IEI [Session 2021-23] expressed gratitude in the vote of thanks, concluding the event on a note of appreciation for the valuable insights shared during the session. The celebration fostered awareness and dialogue on the importance of creating sustainable and inclusive habitats for the well-being of communities.

LOCAL CENTRES

Ananthapuram

On October 02, 2023, Ananthapuram Local Centre, IEI, observed World Habitat Day in Ananthapuram. Dr B Karuna Kumar, Senior Faculty in Electronics and Communication Engineering at Government Polytechnic College, Ananthapuram, served as the Chief Guest, focusing on the substantial generation of residential and industrial waste globally. He underscored the crucial need for waste disposal not only for improved urban living but also to promote green, beautiful cities. Dr. Kumar highlighted the example of women in Ambikapur generating income from waste and the global generation of electricity through waste utilization. Dr M Rama Krishna Reddy, Honorary Secretary, emphasized the importance of providing basic residential facilities for all citizens and the responsibility to plan and develop cities for future generations. The event concluded with Dr Reddy expressing gratitude through vote of thanks, acknowledging the insightful discussions that shed light on the significance of addressing waste management and urban development for a sustainable future.

Jodhpur

Jodhpur Local Centre, IEI, observed World Habitat Day 2023 on 02 October 2023 in Jodhpur. Keynote Speaker, Acharya (Er) Daria Singh Yadav, Former Chairman, Board of Technical Education, Rajasthan, addressed the economic recession in the city amid downturns. He advocated for economic improvements through sharing experiences with other cities, emphasizing the importance of urban economic resilience in enduring shocks and adapting to changing circumstances. Er Yadav highlighted local government responses in creating a financial framework for a green recovery, encouraging public and private investments



for transitioning to a climate-neutral economy. Er M M Agarwal, Chairman, Jodhpur Local Centre, IEI welcomed the Speaker and attendees. Er Resham Ram Hooda, Honorary Secretary, Jodhpur Local Centre, IEI delivered the vote of thanks, concluding the event. The session provided insights into fostering resilient urban economies for a sustainable future.

Kakinada

On October 02, 2023, Kakinada Local Centre, IEI, observed World Habitat Day. Prof B Balakrishna, Director of Education at Jawaharlal Nehru Technological University, Kakinada, graced the event as Chief Guest. Prof (Dr) Malothu Ramesh, Chairman, and Er Jayaprasad Vanam, Honorary Secretary, Kakinada Local Centre, IEI, shared valuable insights on the significance of Habitat Day. The day emphasized the right to shelter and aimed to raise awareness about the imperative balance between urbanization and the environment, ensuring a sustainable future for urban dwellers and generations to come. Er Jayaprasad Vanam, Honorary Secretary, Kakinada Local Centre, IEI proposed the vote of thanks.



Kanyakumari

The Kanyakumari Local Centre, IEI, observed World Habitat Day 2023 on 05 October 2023 through online mode. Dr A B Danie Roy, Assistant Professor at Thapar

Institute, Patiala, Punjab, graced the event as the Guest of Honour. In his insightful Keynote address, he delved into various sustainable practices in civil engineering, including efficient design and planning, energy-efficient building materials, green construction techniques, water and waste management, and transportation solutions. Dr Roy also discussed the significance of 17 Sustainable Development Goals and highlighted innovative technologies such as cavity wall technology, 3D printing, role of Artificial Intelligence and IoT in construction. Dr S Natarajan, Honorary Secretary, [Session 2021-23] introduced the theme, and Prof (Dr) Marsaline Beno M, Joint Honorary Secretary, delivered the vote of thanks, concluding the event with a call for sustainable practices in habitat development.

Meerut

Meerut Local Centre, IEI, observed World Habitat Day 2023 on 02 October 2023 through online mode. Er Rajneesh Kumar, Immediate Past Chairman, Meerut Local Centre, IEI cordially welcomed the attendees. The Keynote Speaker, Mr Ishtiyak Ahmed, Former Chief Town Planner, MDA, Meerut & General Manager (Planning), Noida, stressed the urgency for digital infrastructure and advocated sustainable practices to meet evolving requirements. He specifically highlighted the adoption of e-vehicles in cities as a means to control air quality. Er Raj Pal Agarwal, Honorary Secretary, Meerut Local Centre, IEI expressed appreciation in the vote of thanks, concluding the event. The session emphasized the critical role of technological advancements and sustainable choices in shaping resilient urban habitats.

Munirabad

Munirabad Local Centre, IEI, observed World Habitat Day 2023 on 10 October 2023 in Munirabad. Dr Shashidhar S M, Former Principal, PDIT College, Hospet, graced the event as the Chief Guest. Guest Speaker, Dr P Sharath Kumar, Assistant Professor, Nandhihal College, Sandur, shed light on sustainable living and environmental awareness through workshops. Prof (Dr) Kuppal Veeresh, Chairman, Munirabad Local Centre, IEI [Session 2021-23] presided over the session. Er K Nanjappa, Honorary Secretary, Munirabad Local Centre, IEI



[Session 2021-23] delivered a Keynote on the day's significance, emphasizing the importance of creating sustainable habitats. He concluded the event by proposing a vote of thanks, expressing gratitude for

enlightening discussions on fostering a sustainable living environment.

Palghat



discussed urban resilience. Er Madhana Mohan K, Chairman, Palghat Local Centre, IEI [Session 2021-23], presided over the function, emphasizing the importance of resilient cities. Prof (Dr) Pradip C, Honorary Secretary, Palghat Local Centre, IEI extended thanks, concluding the event. The insightful session shed light on strategies for sustainable urban development and the crucial role of resilience in addressing contemporary challenges.

Tiruchirappalli

Tiruchirappalli Local Centre, IEI, in association with Computer Society of India, Tiruchirappalli Chapter, Safety Quality Forum, IEI, New Delhi, Indian Institute of Welding, Tiruchirappalli Branch, Indian Welding Society, Southern Zone, Indian Institute of Metals, Tiruchirappalli Chapter, Indian Institution of Industrial Engineering, Tiruchirappalli, Indian Institution of Plant Engineers, Trichy Chapter, Kumari Arival Peravai, Kanyakumari and Indian Society for Non-destructive Testing, Trichy Chapter observed World Habitat Day 2023 on 06 October 2023 through virtual mode. Er R Selvaraj, Past Chairman, Tiruchirappalli Local Centre, IEI, presided over the program and extended a warm welcome to the Chief Guest and Speaker, Er R K Bagrodia, CMD of Enzyme Infra Private Limited and Winsome Coatings LLP. This collaborative effort, involving multiple professional societies, aimed to address the significance of sustainable habitats in the virtual event, fostering insightful discussions and perspectives on urban development and resilience. The diverse participation underscored the collective commitment to advancing the discourse on creating sustainable living environments.

Udaipur

Udaipur Local Centre, IEI, observed World Habitat Day 2023 on 14 October 2023 in Udaipur, shedding light on the critical issue of shelter for the homeless in developing nations. Er Purushottam Paliwal, Honorary Secretary, Udaipur Local Centre, IEI emphasized the pressing need for addressing this challenge. Er Chandra Prakash Jain, Chairman, Udaipur Local Centre, IEI extended a warm welcome to Chief Guest and Keynote Speaker, Mr S C Joshi, CLS, Former Chief Labour Commissioner (C), GOI, who shared valuable insights into the complex relationship between habitation and the economy. Mr Joshi



highlighted the challenges posed by urbanization, stressing the demand for innovative solutions to issues like housing, transportation, and environmental impact. Er Purushottam Paliwal expressed gratitude in the

vote of thanks, concluding the event on a reflective note, encouraging continued discourse on sustainable urban development.

Vallabh Vidyanagar

Vallabh Vidyanagar Local Centre, IEI, celebrated World Habitat Day 2023 on 19 October 2023 in Vallabh Vidyanagar. Speaker of the session, Prof Nirav Hirpara, Director of SMAID, New Vidyanagar, elucidated resilience, urban economy, city roles, self-sustainability, and rural support system development. The insights shared encompassed urban and rural development, town planning knowledge, rural development parameters, and the city's contribution to the economy. Prof (Dr) Sanjaykumar Kanubhai Dave, Chairman, Vallabh Vidyanagar Local Centre, IEI welcomed attendees, setting the stage. Er Sunilkumar Subhashchandra Shah, Honorary Secretary, expressed gratitude in the vote of thanks. The event



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Engineering Staff College of India

Autonomous Organ of The Institution of Engineers (India)
(IMS [ISO 9001:2015, ISO 14001:2015, ISO 50001:2018, ISO 45001:2018],
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Continuing Professional Development Programmes (CPDPs) for the Month of February 2024

Sl. No.	Name of the Course	Scheduled Dates
1.	Suspension Bridges and Structural Analysis	05 - 09 Feb 24
2.	Web Application Penetration Testing and Web Security	05 - 07 Feb 24
3.	Weldability of Special Steels and NDE Methods for Engineers	05 - 07 Feb 24
4.	Networking and use of sensors for on farm Irrigation Water Management	05 - 07 Feb 24
5.	Online Monitoring Industrial Emission Effluent (Technical Guidelines and Demonstration)	07 - 09 Feb 24
6.	Optimization of Resources in Limestone & Other Quarries	07 - 09 Feb 24
7.	Cyber Security Issues in Power Sector	07 - 09 Feb 24
8.	Intellectual Property Rights (IPR) - Patent	07 - 09 Feb 24
9.	Kinematics & Dynamics of Robots	12 - 14 Feb 24
10.	Build Dynamic Dashboard in Excel & Power BI (Online)	12 - 16 Feb 24
11.	Latest techniques in Control & Instrumentation in Power Plants and process industries applications	13 - 16 Feb 24
12.	Management of Training for Training & HR Managers at Goa	13 - 15 Feb 24
13.	Climate resilient water supply system design for sustainability	14 - 16 Feb 24
14.	5S for Workplace Excellence	14 - 16 Feb 24
15.	Software used in Civil Engineering Structures (BIM, ETAB, REVIT, HDM-4, TEKLA)	19 - 23 Feb 24
16.	Heat Treatment - Furnaces, Processes and Innovations	19 - 21 Feb 24
17.	Communication and Presentation skills to Succeed in Interviews and Discussions (Communicating Assertively with Confidence)	19 - 21 Feb 24
18.	Structural Safety of Existing Dams - Evaluation and Impacts	19 - 23 Feb 24
19.	Customer Relationship Management- Modernization of Metering, Billing & Collection (MBC) in Distribution Utilities (Online)	20 - 23 Feb 24
20.	Desalination Process - Planning, Design & Operation	21 - 23 Feb 24
21.	Principles & Practices of Sustainable Mining: Corporate Social Responsibility, Social Impact Assessment, Dump Management, Controlled Blasting Techniques, Sewage Treatment, Bio-Medical Waste Management, Conservation and Recycling of Resources, Conversion of Wastes to Resources, Water-Body in Mined out Areas	21 - 23 Feb 24
22.	Internal Auditor Training for AS 9100 Rev D	26 - 28 Feb 24
23.	Training on Cyber Security & Block chain Technology for Engineers, Managers and Scientists at Hampi	26 - 29 Feb 24
24.	Best Practices in O&M and Performance of Optimization of Super Critical Units	27 - 29 Feb 24

For detail information please contact:

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IEI Celebrates World Habitat Day

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served as a valuable platform for understanding and promoting sustainable urban and rural development paradigms.

Visakhapatnam

The Visakhapatnam Local Centre, IEI, commemorated World Habitat Day 2023 on 02 October 2023 with a virtual gathering. Er Saripalli Suryanarayana, Project

Manager at Mumbai Port Trust, graced the occasion as the Chief Guest, delivering an insightful lecture on the theme. Er Venkata Satya G Pakki, Chairman, presided over the event. In his welcoming remarks, Er Rapeti Nageswara Rao, Honorary Secretary, extended greetings to the distinguished participants, setting the stage for a meaningful and engaging discussion. Er Suryanarayana in his address, spoke on green recovery framework and transition to a climate-neutral economy in a post Covid world.

IEI Celebrates World Standards Day

Theme

Shared Vision for a Better World: Incorporating SDG 3

The World Standards Day was celebrated by the Institution on October 14, 2023. Brief accounts of celebration as received from various Centres are reported hereunder.

STATE CENTRES

Delhi

Delhi State Centre, IEI observed World Standards Day 2023 on 14 October 2023 through hybrid mode. Dr Santosh Kumar Singh, Chairman, Delhi State Centre, IEI in his welcome address, highlighted the collaborative



effort of the world's leading organizations for developing and implementing Standards. Ms Sunita Binji, Scientist E, EX. ERTL (N), STQCD, Ministry of Electronics & Information Technology, Government of India graced the occasion as

Chief Guest. Guest of Honour of the session, Shri Sulekh Chand, Scientist F, EX. ERTL (N), STQCD, Ministry of Electronics & Information Technology highlighted that International Standards offer practical solutions to make the world a better place and focused on SDG3 for ensuring healthy lives, promoting well-being, health disparities, well-being inequalities and serving for a more sustainable world. Ms Sunita Binji opined that international standards offer practical solutions and mentioned that international standards and conformity assessment play a crucial role in reaching the targets of SDG 3. Er Rajesh Sharma, Honorary Secretary, Delhi State Centre, IEI proposed the vote of thanks at the end of the event.

Karnataka

Karnataka State Centre, IEI observed World Standards Day 2023 on 20 October 2023 through online mode. Speaker of the session was Dr D Ravishankar, Regional Chief, Housing & Urban Development Corporation Limited, Bengaluru. Dr Enti Ranga Reddy, Honorary Secretary, Karnataka State Centre, IEI [Session 2021-23] in his inaugural address mentioned that engineering is a multi-disciplined field, when new disciplines and branches be added with the advancement of Standards. Dr Ravishankar, in his address said that the sustainable development aims to address the current needs without rejecting the ability of future generation to meet their own requirements. He mentioned that International Standards foster global collaboration for health practices, research findings and innovations, enabling countries to learn from another and adopt effective health strategies. He highlighted that BIS, NSB & SDG3 has played a crucial role in medical devices in India by formulating Indian Standards and enabling India to attain the highest level of good health & well-being for all at all ages.



Kerala

Kerala State Centre, IEI observed World Standards Day 2023 on 11 October 2023 in Thiruvananthapuram. Prof

(Dr) M Jayaraju, Chairman, Kerala State Centre, IEI [Session 2021-23] welcomed the participants and introduced the Speaker of the session, Dr C V Prashant, State Joint Secretary, IMA Kerala & Consultant, Pain and Palliative Department, RCC. Er Roy Mathew, Honorary Secretary, Kerala State Centre, IEI [Session 2021-23] proposed the vote of thanks at the end of the event.

Punjab & Chandigarh

Punjab & Chandigarh State Centre, IEI, in association with Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, Punjab observed



World Standards Day 2023 on 20 October 2023 in Chandigarh. Chief Guest of the event was Er Jotinder Singh, Former Engineer-in-Chief, Punjab State Electricity Board (PSEB)

and Consultant/Advisor to PFC, GOI and Guest of Honours of the event were Er C J Aneja, Former MD, HMT Machine Tools Limited, Former Chairman, Production & General Engineering Division Council, Bureau of Indian Standards, Lead Auditor, Quality Management Systems, Intertek India Private Limited and Dr Priyavrat Thareja, Former Principal Programme Coordinator (TQEM) & Head, Department of Materials and Metallurgical Engineering, Punjab Engineering College, Chandigarh, Former Director/Principal, RIETT, Roper, Former Dean, Faculty of Engineering & Technology, GNA University, Phagwara. Earlier, Dr Labh Singh Bhari, Chairman, Punjab & Chandigarh State Centre, IEI welcomed the members and distinguished guests. Keynote Speaker of the event, Prof (Dr) J S Ubhi, Department Electronics and Communication Engineering, Sant Longowal Institute of Engineering & Technology (SLIET), Longowal spoke on the importance of outcome based education, necessary for maintaining standards of higher education in India. He discussed the benefits of accreditation by National Board of Accreditation (NBA) and National Accreditation and Assessment Council (NAAC). The event witnessed the presence of Prof (Dr) T S Kamal, Former Vice President, IEI and Er Sukhvinder Singh Mundi, presently Vice President, IEI. Er Swinder Singh, Honorary Secretary, Punjab & Chandigarh State Centre, IEI proposed the vote of thanks at the end of the event.

Telangana

Telangana State Centre, IEI observed World Standards Day 2023 on 26 December 2023 through virtual mode. Dr K V Rao, Scientist-F, Senior Director & Head, BIS, Hyderabad Branch graced the occasion as the Chief Guest and addressed the audience. Dr G Venkata Subbaiah, Chairman, Telangana State Centre, IEI welcomed the gathering and presided over the function. Shri Lokraj Meena, Scientist-B, Assistant Director, MED, Standards Formulation, BIS, New Delhi delivered lecture on the topic 'Manak Manthan on Revised Indian Standard of Domestic Pressure Cooker – IS 2347:2023'. Dr K Seetha Ram Babu, Honorary Secretary, Telangana State Centre, IEI proposed the vote of thanks at the end of the event.

LOCAL CENTRES

Aligarh



Aligarh Local Centre, IEI observed World Standards Day 2023 on 14 October 2023 in Aligarh. Dr (Mrs) Salma Shaheen, Chairperson, Aligarh Local Centre, IEI delivered the

welcome address. Keynote speaker, Prof Major Fareed Mahdi, Member-in-Charge, Building Department, Aligarh Muslim University, Aligarh delivered the thematic address. Er Jitendra Kumar Varshney, Honorary Secretary, Aligarh Local Centre, IEI proposed the vote of thanks at the end of the event.

Ananthapuram

On October 14, 2023, Ananthapuram Local Centre, IEI, celebrated World Standards Day in Ananthapuram. Mr Jaya Chandra Reddy, Principal of Government Polytechnic College, Ananthapuram, served as the Keynote



Speaker. He highlighted the pivotal role of standards in advancing video technology, transitioning from analog to digital, video coding, and radio coding. These

standards, he emphasized, contributed to increased data storage efficiency and reduced bandwidth. Prof (Dr) Ms Chigapalle Shobha Bindu, Chairman, extended a warm welcome. Dr M Rama Krishna Reddy, Honorary Secretary, concluded the event with a vote of thanks, expressing gratitude to the participants for their valuable contributions to the insightful discussions on the significance of standards in technological advancements.

Coimbatore

Coimbatore Local Centre, IEI in association with the Department of Biomedical Engineering, PSG College of Technology, Coimbatore observed World Standards Day 2023 on 19 October 2023 in Coimbatore. A Technical Lecture was organized on 'Realizing SDG 3: Awareness on Being Fit for Healthy Life'.



Dr V Ramamoorthy, Professor & Head, Department of Biomedical Engineering, PSG Institute of Medical Sciences and Research, Coimbatore graced the

occasion as Guest Speaker. He explained Body Mass Index (BMI), Calculation of BMI, how to manage BMI level and classification of obesity NIH Guidelines, etc. Earlier, Prof (Dr) Krishnamoorthi J, Chairman, Coimbatore Local Centre, IEI welcomed the Guest Speaker, participants and explained about World Standards Day. Dr R Vidhyapriya, Professor & Head, and Ms N Subhashini, Assistant Professor, Department of Biomedical Engineering, PSG College of Technology, Coimbatore also spoke on the occasion.

Gorakhpur

Gorakhpur Local Centre, IEI, in association with the Institute of Technology and Management (ITM), GIDA, Gorakhpur observed World Standards Day 2023 on 16 October 2023 in Gorakhpur. Chief Guest of the session, Prof A K Singh, Hon'ble Vice Chancellor, Mahayogi Guru Gorakhnath Ayush Vishwavidyalay, discussed on standardization, its implementation and benefit in our daily life. Dr N K Singh, Director, ITM, GIDA, Gorakhpur also spoke on the occasion. Er Pawan Kumar Mishra, Chairman, Gorakhpur Local Centre, IEI highlighted the role of standards in creating a more sustainable and



harmonious global society and opined that standards are essential for fostering a cohesive and efficient technological ecosystem. Guest of Honour of the

event, Er J B Rai, President, Malviya Alumni Association mentioned the need of standardization and the role of engineers to incorporate the recognized standards without any compromise. During the technical session, Prof Rakesh Kumar, Department of Computer Science, Madan Mohan Malaviya University of Technology, Gorakhpur presented a comprehensive overview of standards in computer science, highlighting their significance, types, impact on the industry including networking, data formats, programming languages, security protocols, etc. Er M P Kandoi, Former Chief Engineer, Department of Irrigation, Uttar Pradesh delivered lecture on 'The Role of Standards, Codes, Rules and Regulations in Bridging Gaps between Academia and Industry'. Er M W Beg, Past Chairman, Gorakhpur Local Centre, IEI discussed about the standards related to petroleum industry and explained different case studies related to the hazards occurred in petroleum industry by neglecting standards. Er Ramesh Chandra Pandey, Honorary Secretary, Gorakhpur Local Centre, IEI proposed the vote of thanks.

Kochi

Kochi Local Centre, IEI observed World Standards Day 2023 on 14 October 2023 through online mode. Er Salahudheen P A, Chairman, Kochi Local Centre, IEI [Session 2021-23] welcomed all and briefed on the theme. Prof (Dr) G Madhu, Council Member, IEI and Professor, Cochin University of Science & Technology (CUSAT) introduced the Speaker of the event, Er Antony Joesph, Managing Director, AQA Quality Management System Private Limited. The Speaker explained the role of standards incorporating SDG3 in practical, technical and professional developments. Er Babu K S, Honorary Secretary, Kochi Local Centre, IEI [Session 2021-23] proposed the vote of thanks at the end of the webinar.

Tiruchirappalli

Tiruchirappalli Local Centre, IEI, in association with the Computer Society of India, Tiruchirappalli Chapter; Safety Quality Forum, IEI, New Delhi; Indian Institute of Welding, Tiruchirappalli Branch; Indian Welding Society, Southern Zone; Indian Institute of Metals, Tiruchirappalli Chapter; Indian Institution of Industrial Engineering, Tiruchirappalli; Indian Institution of Plant Engineers, Trichy Chapter; Kumari Arivial Peravai, Kanyakumari and Indian Society for Non-destructive Testing, Trichy Chapter observed World Standards Day 2023 on 17 October 2023 through online mode and organized a lecture on the theme of the event. Dr S Karuppasamy, Past Chairman, Tiruchirappalli Local Centre, IEI, welcomed all. Speaker of the session was Dr Raghupatruni Bhima Rao, Former Chief Scientist, Mineral Processing Department, CSIR-IMMT, Bhubaneswar and presently Chairman, Chemical Engineering Division Board, IEI. Er R Selvaraj, Past Chairman, Tiruchirappalli Local Centre, IEI, proposed the vote of thanks at the end of the event. The theme reflects for a fairer, sustainable world, which focuses on health and well-being, achieving SDGs, reflecting enhancement of peace and property, welfare of both people and planet and collective commitment of nations and individuals.

Udaipur

Udaipur Local Centre, IEI observed World Standards Day 2023 on 14



October 2023 in Udaipur. At the outset, Er Purushottam Paliwal, Honorary Secretary, Udaipur Local Centre, IEI [Session 2021-23] explained the importance of the day. Er Chandra Prakash

Jain, Chairman, Udaipur Local Centre, IEI [Session 2021-23] welcomed the Keynote speaker, Er Prafull Kothari, Assistant Professor, Institute of Engineering and Technology, MLSU, Udaipur, dignitaries and participants. Er Kothari explained the scope of functioning of ISI, and hallmarking. He spoke on the relevance between UN-SDGs and standardization and stressed that standardization plays a crucial role in reaching the targets of SDG 3 by providing a structured and coherent global framework that facilitate adoption of health technologies, research and development, manufacturing, maintenance of healthcare equipment and systems. Er Purushottam Paliwal proposed the vote of thanks at the end of the event.

IEI Celebrates 56th Engineers' Day 2023

Theme : Engineering a Resilient Future: Building Stronger, Smarter, Safer

The 56th Engineers' Day was celebrated by the Institution all over the country on September 15, 2023 to commemorate the 163rd birth anniversary of legendary Engineer-Statesman Bharat Ratna Sir M Visvesvaraya. Brief accounts of the celebration as received from various Centres are highlighted hereunder

STATE CENTRES

Andaman & Nicobar



Andaman & Nicobar State Centre, IEI, observed the 56th Engineers' Day 2023 on 15 September 2023 in Port Blair. Er K Sekar, Former Chief Engineer-cum-Administrator, ALHW, Port Blair, and Past Chairman,

Andaman & Nicobar State Centre, IEI, graced the event as the Chief Guest. Er M Sivaramasubramanian, Chairman, Andaman & Nicobar State Centre, IEI [Session 2021-23] delivered the welcome address. Col Arvind Bhakuni, Commander Works Engineer, Military Engineering Service, Port Blair, presented the Keynote address, while technical presentations were delivered by Er F B Singh, DGM, ISTRAC, ISRO, Bangalore, and Er Sreekanth Reddy, AGM, Shapoorji Pallonji & Co.

Delhi



Delhi State Centre, IEI, celebrated the 56th Engineers' Day on 15 September, 2023, in Delhi. Hon'ble Justice Shri Mukundakam Sharma, Former Judge, Supreme Court of India & Former

Chief Judge of Delhi High Court, graced the occasion as the Chief Guest. Guests of Honour included Er O P Goel, Former DG, Central Public Works Department & Past President, IEI, and Shri Nirmal Kumar, National General Secretary, SC Morcha, Bharatiya Janata Party. Dr Santosh Kumar Singh, Chairman, Delhi State Centre, IEI, and Vice Chancellor, Rajasthan Technical University, Kota, highlighted the achievements and contributions of Bharat Ratna Sir M Visvesvaraya. He emphasized engineers' innovative prowess, shaping smarter systems, intelligent cities, and transformative transportation solutions for a future dominated by intelligence. Er Goel and Shri Nirmal Kumar shared insights, while Hon'ble Justice Shri Sharma advocated for judicious technological use by engineers for societal betterment. Er Rajesh Sharma, Honorary Secretary, Delhi State Centre, IEI, concluded with a vote of thanks.

LOCAL CENTRES

Anpara



Anpara Local Centre, IEI, observed the 56th Engineers' Day 2023 on 15 September 2023 in Anpara. Er S K Dubey, LANCO, Anpara, graced the occasion as the Chief Guest, joined by

Er Vivek Shrivastava, LANCO, Anpara, as the Guest of Honour. Er Dubey urged engineers to follow the path of Sir M Visvesvaraya, emphasizing societal betterment through technical task forces and knowledge-sharing. Er Prashant Kumar, Honorary Secretary, Anpara Local Centre, IEI, delivered a Keynote address on the theme. Chairman Er Anand Kumar Singh shared Sir M Visvesvaraya's life sketch. Er Prashant Kumar extended a warm welcome, concluding with a vote of thanks.

Brahmapur

Brahmapur Local Centre, IEI, in collaboration with the Indian Geo-Technical Society, Bhubaneswar Chapter, Odisha, observed the 56th Engineers' Day 2023 on 15 September, 2023 in Brahmapur. Er Bijaya Kumar Panigrahi,



Former Director, OLIC, Odisha, graced the occasion as the Chief Guest, sharing valuable insights in the field's application. Guest of Honour, Er Deb Prasad Mohanty, Additional Chief Engineer, Southern Minor Irrigation Circle, Brahmapur,

highlighted the theme of the event. Dr S K Nath, Senior Scientist, OUAT, KVK-2, Odisha, served as the Chief Speaker, emphasizing climate's societal impact and proposing pollution mitigation. Keynote Speaker, Er Laxmikanta Tripathy, Superintending Engineer, Minor Irrigation Circle, Brahmapur, showcased various upgraded irrigation/canal systems by the Government of India. Er Sanjaya Kumar Patro, Honorary Secretary, Brahmapur Local Centre, IEI, was also present on the occasion.

Chandrapur

Chandrapur Local Centre, IEI, observed the 56th Engineers' Day 2023 on 16 September 2023 in Chandrapur. Er Yogendrasingh D Parihar, Honorary



Secretary, Chandrapur Local Centre, IEI [Session 2021-23], welcomed the guest and dignitaries of the program and explained the theme of the day. The event featured Chief Guest, Er

Pramod Chauhan, MD, Bamni Protein, Ballarpur; and Guests of Honour Er Sunil Ingale, DE, CSTPS, Chandrapur, and Er Dr Pravin Potdukhe, Principal In-charge, RCERT College, Chandrapur. Er Sunil Ingale emphasized choosing engineering as a profession with the highest standards. Er Dr Pravin Potdukhe advised students to emulate Sir M Visvesvaraya as a role model and enhance their skills for global industrial demands. Er Pramod Chauhan discussed the future of engineering, highlighting the crucial role engineers play in addressing global challenges.

Faridabad

Faridabad Local Centre, IEI, marked the 56th Engineers' Day 2023 on 14 & 15 September, 2023 through a hybrid mode. The technical session on 14 September, 2023, held through virtual mode, led by Er Kuldeep Raj Gupta,

Chairman, commenced with a welcome address. Dr Sonal Saluja, Assistant Professor in the Department of Civil Engineering, MRIIRS, emphasized the harmful impact of carbon emissions and greenhouse gases from human activities. Dr Pratima Mehta, Professor, MRIIRS, Faridabad elaborated on engineering's role in renewable energy, efficient agriculture, and resource conservation. Professors of MRIIRS, Dr Poonam Nandal, Dr Charu Vimani, and Dr Meeta Singh discussed resilience, challenges, and engineering for a resilient future. Dr Sachin Kumar Agarwal, Director AI COE Innovation, Centre of Excellence delivered lecture on 'Intelligent Innovation for Research, Commercialization and Monetization'. Er Pavan Venkata Sai Pilla, Production Lead Engineer deliberated on Resilience and how engineering can build a resilient future. Ms Anchal Kaushik, Agarwal College, Baliabgarh spoke on the impact of engineering on economy. Moderator of the session was Er Ankur Mittal, DGM, NCB, Faridabad.

In the valedictory session on 15 September, 2023, held at Faridabad, Prof (Dr) Sushil Kumar Tomar, Vice Chancellor, J C Bose University of Science & Technology, graced as Chief Guest, and Prof (Dr) Pradeep Kumar, Pro Vice Chancellor, MRIIRS, as Guest of Honour. Er J P Malhotra, President, DLF Industries Association, Faridabad; Shri Apoorba Gupta, Tata Steel Limited and Shri Suresh Poonia, Zonal Head, JK Cement Limited also addressed the gathering. Er Inderdeep Singh, Honorary Secretary, expressed gratitude in the vote of thanks. The event explored diverse topics, from environmental concerns and sustainability to the impact of engineering on the economy, fostering resilience, and the role of innovation in research and modernization. The insightful discussions underscored the vital role of engineers in addressing global challenges and building a sustainable and resilient future.

Ghaziabad



Ghaziabad Local Centre, IEI observed the 56th Engineers' Day 2023 on 15 September 2023 in Ghaziabad. The event, graced by Er (Dr) Anil Kumar Agarwal, Hon'ble Member of Parliament, Rajya Sabha as the Chief

Guest and Hon'ble Shri Atul Garg, Member, UP Legislative Assembly as the Guest of Honour. The event featured Er Satish Chandra Gaur, Chief Coordinator Planner, NCR, as the Guest of Honour and Keynote Speaker. Er Raghunandan Prasad Sharma, Chairman, Ghaziabad Local Centre, IEI [Session 2021-23], extended a warm welcome. Er Satish Chandra Gaur elaborated on engineers' role in township planning, addressing crucial issues like water distribution, traffic management, and sewage disposal. Er (Dr) Anil Kumar Agarwal discussed the scope and challenges of the engineering profession, encouraging budding engineers for national development. Er R R Tanwar, Council Member, IEI, and Shri S K Shukla, Former Director (Tech), THDC India Ltd, shared valuable insights. Er Ashok Kumar, Honorary Secretary, Ghaziabad Local Centre, IEI [Session 2021-23], concluded the event with a vote of thanks.

Indore

Indore Local Centre, IEI observed the 56th Engineers' Day 2023 on 15 September 2023 in Indore. Divided into two sessions, the first session hosted Dr Manish Jaiswal, Director of the National Automotive Test Tracks (NATRAX), as the Chief Guest, and Dr Rakesh Saxena, Director of Shri G S Institute of Technology and Science, Indore, as the Guest of Honour. The

second session featured Er Shankar Lalwani, Hon'ble MP, as the Chief Guest, Er Divyank Singh, IAS, CEO of Indore Smart City, as the Guest of Honour, and Er Sumit Sharma, Director of IICA, Indore, as the Keynote Speaker. Earlier, Er Rajendra Prasad Gautam, Chairman, Indore Local



Centre, IEI [Session 2021-23], in his welcome speech explained about Engineers' Day. He opined that in this dynamic era, engineers are at the forefront of progress, crafting a future, that is well fortified and unyielding. Er Divyank Singh illuminated the engineer's pivotal role in solving traffic challenges and curbing unauthorized tree cutting through the innovative use of Geotechnique and sensors. Dr. Manish Jaiswal delved into environmental protection, emphasizing engineering as an art that, when applied thoughtfully, mitigates aftereffects and minimizes pollution. Er Sumit Sharma provided insights into car safety, advocating for vehicle selection based on safety features. Hon'ble MP, Er Shankar Lalwani, shed light on the ongoing developmental initiatives in Indore City. Prof (Dr) Ms Shilpa Tripathi, Council Member, IEI, proposed the vote of thanks at the end of the event.

Jammu



Jammu Local Centre, IEI observed the 56th Engineers' Day 2023 on 15 September 2023 in Jammu. Shri H Rajesh Prasad, IAS, Principal Secretary to Government, Power Development Department,

Jammu & Kashmir, graced the event as the Chief Guest. He underscored the pivotal role of engineers in national development, emphasizing significant progress in the Power Sector, Roads & Buildings, and modern AI applications. Er Sachin Tickoo, Honorary Secretary, Jammu Local Centre, IEI, extended a warm welcome, while Prof (Dr) Ms Bhawna Sharma, Chairman, Jammu Local Centre, IEI, delivered the opening address. In the technical session, chaired by Shri Sandeep Gupta, IRSE, Chief Project Manager, USBRL, Northern Railways, Jammu, five papers were presented on the event theme. Er Sachin Tickoo concluded with a vote of thanks.

Kanpur

Kanpur Local Centre, IEI, joined hands with Harcourt Butler Technical University, Kanpur, Institution of Electronics & Telecommunication Engineers, Kanpur Centre, The Institution of Electrical and Electronics Engineers (IEEE), U P Section and Association of Professional Graduate Civil Engineers, Kanpur to celebrate the 56th Engineers' Day 2023 on 15 September 2023 in Kanpur. Er Ashutosh Srivastava, Chief Engineer, Kanpur Development



Authority, graced the event as the Chief Guest, while Dr Amandeep Singh, Research Establishment Officer, Imagineering Laboratory, IIT Kanpur, served as the theme Speaker. Prof Narendra Kohli, Chairman, IETE presented the life sketch of Sir M Visvesvaraya. Er Naresh Khandelwal, Chairman, APGCE introduced the theme speaker. Earlier, Er Vivek Asthana, Chairman, Kanpur Local Centre, IEI [Session 2021-23] welcomed the Chief Guest, theme Speaker and the participants. Dr Amandeep Singh emphasized that modern engineering aligns with economic regeneration, social goals, and

equitable employment distribution nationwide, while also reducing the carbon footprint. He urged engineers and professional institutes to actively contribute to achieving these objectives. Er Rama Kant Yadav, Honorary Secretary, Kanpur Local Centre, IEI [Session 2021-23] proposed the vote of thanks at the end of the event.

Kochi

Kochi Local Centre, IEI observed the 56th Engineers' Day 2023 on 15 September 2023 in Kochi. Er Salahudheen P A, Chairman, Kochi Local Centre, IEI [Session 2021-23] delivered the welcome speech. Er N S K Umesh, IAS, Engineer turned Administrator, was the Chief Guest. In his inaugural address,



he paid tribute to Sir M Visvesvaraya, discussing the profound link between engineering development and its impact on humanity. Prof (Dr) G Madhu, Council Member, IEI highlighted Sir M Visvesvaraya's life and

outstanding contributions to modern engineering in India. Dr Anil Joseph, Council Member, IEI emphasized engineers' crucial role in building a resilient and sustainable future, citing the consequences of substandard building design during natural calamities on human society. Er Babu K S, Honorary Secretary, Kochi Local Centre, IEI [Session 2021-23] proposed the vote of thanks at the end of the event.

Kota

Kota Local Centre, IEI observed the 56th Engineers' Day 2023 on 15 September 2023 in Kota. Er Devendra Kumar Bhargava, Chairman, Kota Local Centre, IEI [Session 2021-23] welcomed the



Chief Guest of the session, Er A K Gupta, Advisor Energy, Government of Rajasthan; Guest of Honour, Er Balaji B Narare G M, NTPC

Limited Anta, Keynote Speaker, Prof (Dr) B P Suneja (Retd)), Rajasthan Technical University, Kota, dignitaries, participants and awardees. Dr. B P Suneja, while speaking on the occasion defined resilience as the capacity to endure, adapt, and recover from shocks and stresses. The Resilience Shift is dedicated to exploring how crises unveil system vulnerabilities and strengths, fostering cross-sectoral sharing of stories and insights to build enduring resilience. Er Balaji B Narare addressed energy, transportation, and greenhouse gas emissions, emphasizing the urgency of aligning financial flows with low-emission and resilient development for sustainable progress. Meanwhile, Er A K Gupta highlighted the need for swift actions post the 2008 financial crisis, urging companies to focus on productivity, cost reduction, and strategic divestitures and acquisitions to prepare for the future. Er Shyam Lal Gupta, Honorary Secretary, Kota Local Centre, IEI [Session 2021-23] proposed the vote of thanks at the end of the event.

Meerut

Meerut Local Centre, IEI, in association with Sir Chhotu Ram Institute of Engineering & Technology, (SRIET) Meerut observed the 56th Engineers' Day 2023 on 16 September 2023 in Meerut. Er V C Gupta, Former SE,



UPPCL, eloquently presented the life sketch of Bharat Ratna Sir M Visvesvaraya, highlighting his multifaceted contributions as an outstanding engineer, administrator, statesman, educator, economist, and

social worker. Dr Swati Singh, Associate Professor, SRIET, Meerut, the event's speaker, delved into the concept of a resilient future, emphasizing elements like adaptability, innovation, and technology. Ms Nidhi Bhatia, Assistant Professor, Department of Computer Application, SRIET, Meerut, explored Natural Language Processing (NLP) as a machine learning tool for language comprehension. Dr Niraj Singhal, Director, SRIET, Meerut, discussed the beneficial attributes of technology and its ongoing developments. Er Raj Pal Agarwal, Honorary Secretary, Meerut Local Centre, IEI [Session 2021-23] proposed the vote of thanks at the end of the event.

Muzaffarpur

Muzaffarpur Local Centre, IEI observed the 56th Engineers' Day 2023 on 15 September 2023 in Muzaffarpur. Er Anjani Kumar Srivastava, Chairman,



Muzaffarpur Local Centre, IEI [Session 2021-23] delivered the welcome address. Dr Ripusudan Prasad Srivastava, Former Vice Chancellor, B N Mandal University graced the occasion as the Chief

Guest and addressed the engineering fraternity to contribute with more efforts for the development of the country. Keynote speaker, Dr Ramjee Prasad Gupta, Associate Professor, Department of Electrical Engineering, MIT spoke on new innovations that are being carried out in the field like Artificial Intelligence and Data Science. Dr M K Jha, Principal, MIT in his address highlighted the contributions of Sir M Visvesvaraya. Er Lok Ranjan, Honorary Secretary, Muzaffarpur Local Centre, IEI proposed the vote of thanks at the end of the event.

Neyveli



Neyveli Local Centre, IEI, marked the 56th Engineers' Day on 15 September, 2023 in Neyveli. Er Prasanna Kumar Motupalli, Chairman & Managing Director, NLCIL, graced the occasion as the Chief Guest and emphasized the integration

of technological advancements with ethical values. He highlighted NLCIL's commitment to environmental protection through sustainability. Mr Mohan Reddy, Director (P&P), NLC India Limited, also shared insights. The event featured Mr Mohan Reddy, Director (P&P), Mr Samir Swarup, Director (HR), and Mr M Venkatachalam, Director (Power), NLC India Limited. Earlier, Er M Senthil Kumar, General Manager, Corporate Environment Cell and Honorary Secretary, Neyveli Local Centre, IEI [Session 2021-23], welcomed the gathering.

Saurashtra



Saurashtra Local Centre, IEI, celebrated the 56th Engineers' Day 2023 on 15 September, 2023, in Rajkot. Er Ashwani Kumar, Divisional Railway Manager, Rajkot, was the Chief Guest and Speaker, while Mr B S

Kaila, District Education Officer, Rajkot, was the Guest of Honour. Dr Rajesh Patel from Marwadi University also addressed the gathering. The vote of thanks was proposed by Er D V Suchde, concluding the event.

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The Institution of Engineers (India)

Notification for R&D Grant-in-Aid

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

Like every year, the Institution invites applications for the session 2024-2025 for funding industry-oriented R&D projects and research initiatives aimed at improving the life-style of common people from engineering students pursuing full time Diploma/UG/PG/PhD engineering program in AICTE/UGC/NAAC approved Institutions/Colleges/Universities. The application form and guidelines are available in our website <https://www.ieindia.org>. The projects should be carried out under the guidance of faculty members who are Corporate Members of IEI. Membership criteria for student(s), guide(s) and Institution(s) are as follows:

Project Category	Student/Applicant Membership	Guide(s) Membership	Institutional Membership	Quantum of Grant (INR)
1. Diploma	Exempted [Membership of Student Chapter is desirable]	AMIE/MIE/FIE	Not Mandatory	Not exceeding ₹20,000/- for a single project
2. UG (BE/BTech/AMIE/Equivalent)	SMIE	AMIE/MIE/FIE	Applicant's Institute should preferably be an Institutional Member with NBA / NAAC Accreditation or valid NIRF Rank	Not exceeding ₹50,000/- for a single project
3. PG (ME/MTech/Equivalent)	AMIE/MIE/FIE	MIE/FIE	Applicant's Institute should preferably be an Institutional Member with NBA / NAAC Accreditation or valid NIRF Rank	Not exceeding ₹1,00,000/- for a single project
4. PhD	AMIE/MIE/FIE	MIE/FIE	Applicant's Institute should preferably be an Institutional Member with NBA / NAAC Accreditation or valid NIRF Rank	Not exceeding ₹1,50,000/- for a single project

The soft copy of the duly filled-up applications (in editable format), as per the pro-forma available in our website www.ieindia.org, should be sent through email to research@ieindia.org and one printed copy of the same should reach the following address:

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

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

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

IEI Celebrates 56th Engineers' Day 2023

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Thanjavur



Thanjavur Local Centre, IEI, in collaboration with Periyar Maniammai Institute of Science and Technology University (PMIST), celebrated the 56th Engineers' Day 2023 on 15 September, 2023 in Thanjavur. Er E Jayakumar, Chairman, Thanjavur Local Centre, IEI [Session 2021-23], welcomed attendees, emphasizing engineers' potential to save lives, improve communities, and tackle global challenges. He urged engineers to view challenges as stepping stones for growth, learning, and innovation, fostering a growth mindset. Dr P K Srividya, Dr S Velusami, Vice Chancellor, PMIST addressed the august audience. Registrar, PMIST shared insights, highlighting the role of engineers in bringing a positive change globally.



Tiruchirappalli

Tiruchirappalli Local Centre, IEI, observed the 56th Engineers' Day 2023 on 15 September 2023 through

hybrid mode. Er R Selvaraj, Past Chairman, Tiruchirappalli Local Centre, IEI, introduced the Chief Guest of the session, Er N Gopalasamy, Former Director, Dalmia Cement Bharat Limited and Past Chairman, Tiruchirappalli Local Centre, IEI. Er Kevin Ark Kumar, Honorary Secretary, Tiruchirappalli Local Centre, IEI, proposed the vote of thanks at the end of the event.

Tumakuru

Tumakuru Local Centre, IEI, observed the 56th Engineers' Day 2023 on 08 November 2023 in Tumakuru. Prof (Dr) Sridhar K N, Chairman, Tumakuru Local Centre, IEI, Chief Advisor, CIT, Gubbi, delivered the welcome address. Chief Guests of the event were Captain G B Varadharaju, Principal, Siddaganga Polytechnic, Tumakuru & Former Captain, Indian Navy and Dr Jayanna H S, Dean (Academic) & Professor, Department of Information



Science & Engineering, Siddaganga Institute of Technology, Tumakuru. Captain G B Varadharaju delivered an Invited Talk on 'Role of Engineers in Societal Development'. Dr Kiran Gowd M R, Principal,

CIT Polytechnic, Gubbi, Tumakuru also attended the event. Dr Suresh D S, Honorary Secretary, Tumakuru Local Centre, IEI, Director & Principal, CIT Gubbi, proposed the vote of thanks.

IEI DIARY



Computer Engineering Division

All India Workshop on **"High Performance Computing in Health Care and Big Data Analytics"**
Kattankulathur, February 05-06, 2024

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

All India Workshop on **"Advanced Code Wizardry Uncovering Secrets for Designing and Architecting Impactful Applications"**

Kattankulathur, March 04-05, 2024

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

Electrical Engineering Division

International Conference on **"Green Hydrogen and Clean Energy"**

Nagpur, February 10-11, 2024

The Honorary Secretary, IEI, Nagpur Local Centre,

North Ambazari Road, Nagpur 440010, [☎: 0712-2525617, E-mail : nagpurlc@ieindia.org]

Thirty-ninth National Convention of Electrical Engineers on **"Green Hydrogen, Electric Vehicle and Energy Storage System"**

Chennai, May 24-25, 2024

The Honorary Secretary, IEI, Tamil Nadu State Centre, No. 19, Swami Sivananda Salai, Chepauk, Chennai 600005 [☎: 044-25360614 /9962950333, E-mail : tnscc@ieindia.org, Website : www.ieitnsc.org]

Mechanical Engineering Division

Thirty-ninth National Convention of Mechanical Engineers on **"Innovations in Mechanical Engineering, Sustainable Manufacturing Technologies, Design and Energy Systems"**

Chandigarh, September 06-07, 2024

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

Fortieth National Convention of Mechanical Engineers on **"Recent Advances in Mechanical**

Engineering"

Durgapur, August 23-24, 2025

The Honorary Secretary, IEI, Durgapur Local Centre, Nehru Avenue, B Zone, Durgapur 713 205 [Fax: 0343-2564770, Email: durgapurlc@ieindia.org, Website: <http://www.ieidurgapurlc.org/>]

Production Engineering Division

Thirty-eighth National Convention of Production Engineers on **"Green and Bio-inspired Manufacturing – The Way Forward"**

Bareilly, May 02-03, 2024

The Honorary Secretary, IEI, Bareilly Local Centre, 44, Camphor Estate Colony, Near Champhor Hospital, Rampur Road, C B Ganj, Bareilly 243502, Uttar Pradesh [Mobile: 9634953691, Email: bareillylc@ieindia.org]

Interdisciplinary Co-ordination Committee

All India Seminar on **"Green Technologies for Sustainable Development"**

Pune, 16-17 March, 2024

The Honorary Secretary, IEI, Pune Local Centre, Office Address:1332 Shivaji Nagar, Jangli Maharaj Road, Pune 411 005 [☎: 020-25533376/25520239/25530150, Email: punelc@ieindia.org, Website: <http://ieipune.org/>]

Empanelment as Advocate/ Attorneys & Chartered Accountant for Engineers

The Institution of Engineers (India) invites practicing Advocates/Attorneys and Chartered Accountants who are also Engineers to apply for empanelment to enhance their visibility in the public domain. Empanelment entails a nominal application fee of Rs. 5900/- (inclusive of GST) payable by Demand Draft/Multi-city Cheque made in favor of **"The Institution of Engineers (India)"** and payable at Kolkata.

Applicants are requested to send a hard copy of their application to the **Director (Membership)**, The Institution of Engineers (India), 8 Gokhale Road, Kolkata 700020. For further details, please visit our website at <https://www.ieindia.org/webui/iei-home.aspx>.

Elevate your status as a Certified Professional Engineer (PE) and International Professional Engineer (IntPE)

Professional Engineers (PE) Certification by IEI

ELIGIBILITY REQUIREMENT

To attain the Professional Engineers (PE) certification through the Institution of Engineers (IEI), you must meet the following eligibility criteria:

1. Hold a BE/BTech or equivalent degree recognized by a Statutory Authority or the Government of India.
2. Have accumulated five years or more of professional experience.
3. Be a member of a recognized professional engineering institution or association.
4. Maintain a satisfactory level of Continued Professional Development (CPD).

For more information and details, please visit the following link :

https://www.ieindia.org/webui/IEI_PE_Certification.aspx

International Professional Engineers (IntPE) Certification by IEI

ELIGIBILITY REQUIREMENT

To be eligible for IntPE Certification by IEI, candidates must meet the following criteria:

1. Hold a BE/BTech or equivalent degree recognized by the Statutory Authority or the Government of India.
2. Possess seven years or more of professional experience.
3. Have a minimum of two years of professional experience in a significant engineering activity.
4. Be a member of a recognized professional engineering institution or association.
5. Maintain a satisfactory level of Continued Professional Development (CPD).

For more information and details, please visit the following link :

https://www.ieindia.org/webui/IEI_IntPE_Certification.aspx

The eligible candidate can submit application in the prescribed format to:
The PE Cell, The Institution of Engineers (India), 8 Gokhale Road, Kolkata 700020
For any query and assistance, please send email to: pe@ieindia.org

The Institution of Engineers (India)

8 Gokhale Road, Kolkata 700 020

Proceedings of the Special General Meeting of Corporate Members of The Institution of Engineers (India) held on 26 November 2023 at Delhi

A Special General Meeting of the Corporate Members of The Institution of Engineers (India) under Bye-Law 32(b)(i) was held on **26 November 2023** at the **Engineers Bhawan, 2 Bahadur Shah Zafar Marg, New Delhi 110002** at 1000 hrs.

109 Corporate Members were present.

Er Shivanand Roy, President IEI, was in the Chair.

The President called the Meeting to order.

On being asked by the President, Maj Gen (Dr) M J S Syali, VSM (Retd), Secretary and Director General, read out the Notice dated 25 October 2023 sent to all Corporate Members of The Institution of Engineers (India) published and circulated through IEI News, Volume 30, Number 7, October 2023 issue to the Corporate Members and displayed at the IEI Website (www.ieindia.org).

The Secretary and Director General then informed that he had received a total of 574 number of proxies as per provision under Bye-Law 41.

As the meeting proceeded to business, decision according to the majority of votes was necessitated. With a view to ascertain the authenticity of the proxies received, it was decided that the members present and claiming proxy votes should identify the respective proxies and sign thereon as a mark of authentication.

Finally, on the basis of majority of votes (authenticated proxy votes duly considered along with votes in person), all the proposed amendments of Regulations and the Extension of Term of the Committee of IEI Delhi State Centre were approved and the decision came into force with immediate effect. It was **RESOLVED** that –

1. **The proposed amendments in the Regulations of The Institution contained in the Notice dated 25 October 2023 published and circulated through IEI News, Volume 30, Number 7, October 2023 issue to the Corporate Members and displayed at the IEI Website (www.ieindia.org) be approved and adopted to come into force with immediate effect i.e. from 26 November 2023.**
2. **The term of the IEI Delhi State Centre Committee be extended by one more session upto 2023-24, including its Chairman and Honorary Secretary.**

The President then declared the Special General Meeting (SGM) of the Corporate Members of IEI as closed at 1230 hrs.

The Institution of Engineers (India)

8 Gokhale Road, Kolkata 700 020

Proceedings of the Extraordinary General Meeting of Corporate Members of The Institution of Engineers (India) held on 26 November 2023 at Delhi

An Extraordinary General Meeting of the Corporate Members of The Institution of Engineers (India) under Bye-Law 32(c)(i) was held on **26 November 2023** at the **Engineers Bhawan, 2 Bahadur Shah Zafar Marg, New Delhi 110002** immediately after the Special General Meeting.

109 Corporate Members were present.

Er Shivanand Roy, President IEI, was in the Chair.

The President called the Meeting to order.

On being asked by the President, Maj Gen (Dr) M J S Syali, VSM (Retd), Secretary and Director General, read out the Notice dated 25 October 2023 sent to all Corporate Members of The Institution of Engineers (India) published and circulated through IEI News, Volume 30, Number 7, October 2023 issue to the Corporate Members and displayed at the IEI Website (www.ieindia.org).

The Secretary and Director General then informed that he had received a total of 574 number of proxies as per provision under Bye-Law 41.

As the meeting proceeded to business, decision according to the majority of votes was necessitated. With a view to ascertain the authenticity of the proxies received, it was decided that the members present and claiming proxy votes should identify the respective proxies and sign thereon as a mark of authentication.

Finally, on the basis of majority of votes (authenticated proxy votes duly considered along with votes in person), all the proposed amendments of Bye-Laws were approved and the decision came into force with immediate effect. It was **RESOLVED** that –

1. **The proposed amendments in the Bye-Laws of The Institution contained in the Notice dated 25 October 2023 published and circulated through IEI News, Volume 30, Number 7, October 2023 issue to the Corporate Members and displayed at the IEI Website (www.ieindia.org) be approved and adopted to come into force with immediate effect i.e. from 26 November 2023.**

The President then declared the Extraordinary General Meeting (EGM) of the Corporate Members of IEI as closed at 1250 hrs.



The Institution of Engineers (India)

A Century of Service to the Nation

Celebrates

World Engineering Day for Sustainable Development



March 4, 2024

Theme:

Engineering Solutions for a Sustainable World



The Institution of Engineers (India)

A Century of Service to the Nation

Celebrates

World Water Day

March 22, 2024

Theme:

Water for Peace

Certificate of Practice for Practicing Chartered Engineers

The Corporate Members of the Institution having Chartered Engineer Certificate in the current grade of Membership with five years of experience as an Engineer in the relevant field can apply for **Practicing Chartered Engineers Certification**. The Institution will issue **Practicing Registration No.** for practising Chartered Engineers, which is valid for **five years**.

The application fee for empanelment is, Rs.5900/- (GST included), which may be made in Demand Draft/ Multi-city Cheque in favour of "The Institution of Engineers (India)" payable at Kolkata.

The hard copy of application should reach to:-

The Director (Membership)

The Institution of Engineers (India), 8 Gokhale Road, Kolkata 700020

Please visit : <https://www.ieindia.org/webui/IEI-RegistrationForPPCE.aspx> for more details.

Know-Your- Member (KYM)

The Institution of Engineers (India) is updating the database of all its Corporate Members along with their achievements for which a Know-Your-Member (KYM) form has been introduced.

Every Corporate Member is requested to kindly fill up the form and forward it along with the self-attested copy of photo ID proof to the address given below:-

The Director (Membership)

The Institution of Engineers (India)

8 Gokhale Road, Kolkata 700020

Email: datamemb@ieindia.org

The form is available in IEI Website:

https://www.ieindia.org/WebUI/ajax/Downloads/WebUI_PDF/HIGHLIGHTS_DOCUMENT-3332.pdf

FEIAP ENGINEER OF THE YEAR AWARD 2024

We are happy to announce that the Federation of Engineering Institutions of Asia and the Pacific (FEIAP) has invited nominations for FEIAP Engineer of the Year Award 2024 from its Member Economies.

The purpose of the Award is to encourage the engineers both young and veterans to make great contributions to the engineering within Asia and Pacific region.

Key Details:

Nomination Deadline: 29th February 2024

How to Nominate:

Please use the link (https://www.ieindia.org/WebUI/ajax/Downloads/WebUI_PDF/Nomination_form_guide_2024.pdf) for accessing and downloading the nomination form, which is required to be filled by the applicant and endorsed by the Member Economy, in this case IEI, for your kind reference.

Contact:

All nominations should be sent to the FEIAP Secretary- General (feiapofficial@gmail.com)

Criteria: For details please visit <https://feiap.org/engineer-of-the-year-award/>

We appreciate your attention to this matter and look forward to your active participation in the FEIAP Engineer of the Year Award 2024.

2024 ICE Awards: Recognizing Excellence in Global Civil Engineering

We are pleased to inform you that the Institution of Civil Engineers (ICE) has opened nominations for the 2024 ICE Awards.

These awards celebrate exceptional contributions to civil engineering globally. The ICE Annual Awards recognize both outstanding civil engineering achievements and contribution to the profession and ICE. This award aligns with ICE's decarbonisation commitment and is awarded to a civil engineer who's made an outstanding contribution to civil engineering who had prime responsibility for an outstanding contribution to civil engineering outside the UK. This year the award will specifically seek to recognize a civil engineer who has had prime responsibility for an outstanding project or initiative that has contributed to decarbonising civil engineering outside the UK.

Key Details:

Nomination Deadline: 13 February 2024

Awards Ceremony: October 2024, One Great George Street, London

How to Nominate:

Visit ICE Awards (<https://www.ice.org.uk/careers-learning/develop-your-career/awards-and-competitions/ice-awards>) for nomination details and forms.

Contact:

For inquiries, reach out to **Ms Katie Momber, ICE Climate Community Manager**, at katie.momber@ice.org.uk or knowledge@ice.org.uk.

We appreciate your attention to this matter and look forward to your active participation in recognizing and celebrating outstanding contributions to the field of civil engineering.

Superannuation from IEI

Mr Ravi Kumar Sharma, an employee of the Varanasi Local Centre of the Institution has superannuated from the services of IEI on January 31, 2024. He joined the Institution on September 15, 2017 and rendered his services to the Institution over a period of 6 years.

IEI wishes Ravi Kumar Sharma and his family a happy and healthy life in the future.



IEI NEWS

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

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