

## 98 YEARS OF RELENTLESS JOURNEY TOWARDS ENGINEERING ADVANCEMENT FOR NATION BUILDING

### From the Chairman's Desk



Dear Fellow Engineers,

This Newsletter brings to your reports of various activities which have been organized by Delhi State Centre during the last few months. It has been a very busy but satisfying period as technical events encompassing different engineering divisions were held with active support of members of Delhi State Centre Committee

as well as corporate members of IEI along with professionals of the field. We are nearing end of financial year and need to complete the accounting formalities for which we are committed to achieve the target before the deadline set out by IEI Headquarters.

DSC is embarking on a very hectic schedule of upcoming events in next few months which include two national conventions and our flagship event of Annual Safety Convention apart from other statutory day celebrations and technical programme. I seek support of all corporate members to organize these in most befitting manner.

Addressing the needs of our student members have been high on our agenda and major initiatives of augmenting library facilities / resources & conduct of guidance class on maximum possible subjects have been undertaken. Reconnecting with our senior members who have not been able to take active part in our activities has been another major step which has been initiated. I request you to join hand in this initiative and encourage all such corporate members to update the contact detail so that timely communication can be made with them.

We have also initiated upgradation of infrastructure at our premises and invite you to forward your suggestions in this regard.

Together let us make Delhi State Centre as one amongst the best in IEI family.

(Devendra Gill)

### Impact of Engineering on Renewable Energy



The energy sector needs significant and accelerated change, with a transformation from one largely based on fossil fuels, to a zero-carbon energy system by the second half of this century. Accounting for two-thirds of greenhouse gas (GHG) emissions, the energy sector presents a large opportunity to combat climate change through a shift towards renewable energy. Substantially increasing the share of renewable is not just needed for alignment with global climate goals, but it would lead to USD trillions in economic growth between now and 2050.

In 2016, approximately 80% of energy used came from fossil fuels, with just under 20% derived from renewable. In power generation however, renewable represented a quarter of all power generation in 2017-an increase of around 5 percentage points over the period 2010 to 2017. Renewable power generation constitutes the majority of power sector capacity addition since 2012, driven by their economic viability. Biomass for power, hydro-power, geothermal, solar photovoltaic and onshore wind technologies can all now provide electricity that is competitively prices compared to fossil fuel-fired electricity generation.

Recent auction and tender results have signaled that cost for solar and wind technologies will continue to fall, a solar PV and onshore wind to achieve LCOEs of between USD 0.03 and USD 0.04/KWH for delivery by 2020/22. Auction date for 2016 and 2017 have heralded the imminent arrival of competitive offshore wind and CSP, where LCOEs could fall to USD 0.06/KWH to USD 0.10/KWH by 2020/22. Meaning all commercially available solar and wind will be competitive with, or even substantially undercut, conventional power generation technologies at utility scale by 2020. Taken on the whole, the continuous falling costs of renewable power generation present a compelling economic case for the increased use of renewable energy moving forward.

With ever lower option results being reported, the question arises: What would the effect be on our power markets, of the average costs trajectory followed the auction results?

Pradeep Chaturvedi  
Council Member, IEI

### From the Hony. Secretary's Desk



Dear esteemed Members,

It is a matter of immense pleasure for me to place this edition of Centre's Newsletter in the hand of esteemed members.

This Newsletter is final edition for the current financial year. I feel highly proud to announce that during the last one year, we had organised numerous activities focussing diversified sectors

and diversified professional.

Bringing all Corporate Members attached to Centre in main stream was our key. Focus area. We have adopted various strategies to achieve this objective. Greater participation of Corporate Members in various activities have vindicated that we have been quite successful. The activities undertaken by Delhi State Centre in this year have been

elaborated in subsequent pages.

We could not have achieved this without the dedication of Delhi State Centre's Committee Members. Our heartfelt congratulations and appreciation goes to all of them for all their support, guidance and cooperation. I wish to place on record commendable work done by the entire staff of Delhi State Centre during the last one year for achieving different milestone.

I look forward to more vibrant 2017-18.

Jai Hind.

Praveen Kr Singh

## **31st National Convention of Agricultural Engineers on Theme: Engineering Interventions in Doubling the Income of Small and Marginal Farmers by 2022**

**February 2-3, 2018 • New Delhi**

The Institution of Engineers (India), Delhi State Centre organized 31st National Convention of Agricultural Engineers on the theme: Engineering Interventions in Doubling the Income of Small and Marginal Farmers by 2022 during February 2-3, 2018, under the aegis of Agricultural Engineering Division, at Institution's premises, New Delhi. Shri Narendra Bhooshan, IAS, Dy. Director General, UIDAI, Govt. of India was the Chief Guest of the Inaugural function. Shri Sisir Kumar Banerjee, President, The Institution of Engineers (India) and Shri Shyam Khadka, FAO Representative in India respectively blessed the occasion as Guests. Shri Devendra Gill, Chairman, IEI-DSC delivered the welcome address. Mr. Pradeep Chaturvedi, Chairman of Technical Committee informed in his address that Agriculture is central to meeting nutritional needs of India and also remains the largest sector of India's economy as a source of employment. Dr. H G Kamble, Convener of the National Convention in his address briefed about the details of various technical sessions. Dr. Indramani Mishra, Head-Division of Agricultural Engineering, ICAR-IARI delivered the theme address. Prof. Gajendra Singh, Former DDG (Engg), ICAR; Former VC, Doon University delivered the key-note address on the occasion. Prof Singh informed that Farm mechanization in India has come a long way during the last 60 years and still there is tremendous scope as it is required in every unit operation of agricultural production, post-harvest, food processing and rural living. Guest of Honour of the function Shri Sisir Kumar Banerjee, President of IEI in his address stressed that all round agricultural development with the application of innovations in the domain of Science & Technology has become a paramount necessity. Shri Shyam Khadka, FAO Representative in India and Guest of Honour of the function in his address informed that Hon'ble Prime Minister of India has set a target for doubling farmers income by 2022. Dr Nutan Kumar Dash, Chairman, Agricultural Engineering Division Board, IEI in his address stated that Agricultural engineering plays a very vital role in India for changing national economy in future days to come. Our ultimate goal is to contribute our genuine inputs in the sustainable food production to meet the maximum food requirement of the country along with raising economy of farming communities/stake holders. Chief Guest Shri Narendra Bhooshan in his address raised concerns over various key-issues that are posing challenges to Food Security. Vote of thanks was presented by Shri Praveen Kr. Singh, Honorary Secretary, IEI-DSC.

## **Two Days All India Seminar on "National Electric Mobility Mission 2020"**

**January 19-20, 2018 • New Delhi**

Shri Abhay Bakre, Director General, Bureau of Energy Efficiency, Govt of India, Ministry of Power was the Chief Guest of the Inaugural function.

Delivering the welcome address, Shri Devendra Gill, Chairman, Delhi State Centre-IEI mentioned that National Electric Mobility Mission Plan 2020 is one of the most important and ambitious initiatives undertaken by the Government of India. Shri V K Gupta, Co-Convenor of the Seminar briefed about the technical details of Seminar. Shri R N Rajpoot, Chairman, The Institution of Engineering & Technology, Delhi Local Network stated that E mobility is one of ambitious project of GOI like electrification of Indian Railways. Shri Pradeep Chaturvedi, Council Member, IEI also graced the occasion and in his address apprised about the prospects of Mobility.

Chief Guest of the Inaugural Function, Shri Abhay Bakre, Director General, BEE in his address elaborately spoke on the various environmental issues impacting the society and India's commitment towards reduction of GHG emission.

Shri Praveen Kr Singh, Honorary Secretary, Delhi State Centre proposed the vote of thanks. Nearly 100 participants, Invitees and Guests attended the Seminar.

## **Road Safety Week 2018 on the theme "Avoid Overspeeding- Prevent Accidents"**

**January 12, 2018 • New Delhi**

Shri Devendra Gill, Chairman, Delhi State Centre-IEI, welcomed the guests and dignitaries. Lt Gen J S Ahluwalia, Chairman, Safety & Quality Forum-IEI in his address stressed on revamping of Traffic Management System to achieve the objective of Road Safety.

Chief Guest Shri Dependra Pathak, IPS delivering theme address mentioned that number of road accidents in Delhi is gradually reducing due to pursuant effort of Delhi Police. Shri Pathak further mentioned that Continuous Prosecution and tracking are the key strategies that led to this achievement. However, still a lot has to be done to completely eradicate this problem. Referring to the future plan of Delhi police for reducing Traffic Congestion in Delhi,

Shri Praveen Kumar Singh, Honorary Secretary, The Institution of Engineers (India), Delhi State Centre coordinated the event and proposed the vote of thanks.

## **5th R K Vir Memorial Lecture**

**January 5, 2018 at New Delhi**

Shri Devendra Gill, Chairman, Delhi State Centre-IEI, welcomed the guests and dignitaries.

Chief Guest of the function, Shri Piyush Goyal, Honorable Minister of Railway & Coal, Government of India remembered Late Shri R K Vir as he and his father did Engineering from Banaras Hindu University together in 1949. He stated that Late Shri R K Vir would always be remembered amongst the Pioneers who contributes in the initial stages for construction of the Railway System in India. Honorable Minister stated that Indian Railways was also a charm for people to travel, which needs to be revived back. He stated that Indian Railway need to give safe journey and pleasure to travel to nearly 2.5 crore passengers everyday.

Shri Ghanshyam Singh, Member Traction, Railway Board and Ex officio Secretary to Govt of India delivered the key-note address on theme: "Electrification of 100% BG network of India Railways". Guest of Honour, Shri Prakash Narayan, Former Chairman, Railway Board delivered 5th R K Vir Memorial Lecture on the theme: "Creating Visionary Management along with Professionalism".

## **All India Seminar on "5G Technologies & Future Scenario"**

**December 16, 2017 • New Delhi**

Shri Anil Kaushal, Member (Tech), Telecom Regulatory Authority of India was the Chief Guest while Shri Bharat Bhatia, President, ITU-APT Foundation of India and Shri Vipin Tyagi, Executive Director, C-DoT were Guests of Honour of the Inaugural Function.

Shri Pradeep Chaturvedi, Council Member, The Institution of Engineers (India) delivered the welcome address. Shri P K Garg, Wireless Adviser to the Govt. of India (Retd.) & Former Chairman, Radio Regulations Board, ITU apprised participants about Technologies and Hardware Road Map as well as Spectrum related issues for 5G eco system. Shri V K Gupta, Convenor of the Seminar briefed about the technical details of Seminar. Guest of Honour Shri Bharat Bhatia, President, ITU-APT Foundation of India in his address spoke on the overview of 5G and highlighted on key features of 5G,

Chief Guest, Shri Anil Kaushal, Member (Tech), TRAI in his address appreciated the efforts of Delhi State Centre-IEI for conducting such seminar especially on the strategies of TRAI. Shri Kaushal informed that TRAI has recommended releasing of E-band spectrum for backhaul. Shri Rahul Meena and Ms Kiran Chaudhary, C-Dot presented a Demo of SAMVAD APPLICATION. Samvaad is a mobile application that enables interaction between citizens and their elected representatives.

Shri Praveen Kr Singh, Honorary Secretary, Delhi State Centre proposed the vote of thanks.

### **Energy Conservation Day- 2017**

**December 14, 2017 • New Delhi**

Shri Pradeep Chaturvedi, Council Member, The Institution of Engineers (India), welcomed the guests and dignitaries. He mentioned that India is one of the earliest countries who have focused on energy conservation. Shri R N Rajpoot, Chairman, The Institution of Engineering & Technology (Delhi Local Network) in his address stressed on changing behavioural practice in order to achieve Sustainable result in Energy Conservation.

Chief Guest of the Function, Shri M K Gupta, Former Director (Technical), Delhi Vidyut Board and Advisor (Energy), DPS Society in his address highlighted on key-issues that are causing abundant wastages of energy as well as other resources like food, environment, water, etc.

Shri Praveen Kr Singh, Honorary Secretary, IEI-DSC proposed the vote of thanks.

### **Technical Programme on “High Rise Building Fires with Specific Reference to Recent London Fire Tragedy”**

**November 18, 2017 • New Delhi**

Shri Devendra Gill, Chairman, Delhi State Centre-IEI, welcomed the guests and dignitaries.

Shri R C Sharma, Former Director, Delhi Fire Services Chief Guest of the function presented a very exhaustive coverage of challenges local fire and emergency services face while carrying out their duty of rescue and fire fighting in cities. The emergency responders have not only to face variety of fires but also the difficulty in accessing the fire locations. Any city with old construction, congested road, narrow lanes and by-lanes, unplanned, unauthorized construction etc also cause big risk to the life of fire fighters. However, to do so fire need to be controlled and extinguish. Modern building have to be equipped with State of art fire protection technologies to ensure safety of their occupants. Screening of Movie of “Towering Inferno” was made during the programme. It was a very informative technical programme and was appreciated by all the Participants.

### **All India Seminar on “Energy Efficiency Intervention for Operation Cost Reduction in Manufacturing Industries**

**November 3-4, 2017 • New Delhi**

Delivering the welcome address, Shri Devendra Gill, Chairman, Delhi State Centre-IEI stressed on development of broader road map in order to create awareness about Energy Efficiency and Energy Conservation at the grass root level.

Shri R K Yadav, Convenor of the Seminar briefed about the technical details of Seminar. Shri Pradeep Chaturvedi, Council Member, IEI also graced the occasion and apprised about the involvement of various International organisations like World Energy Council WEC etc in propagating the agenda of efficient energy.

Shri Abhay Bakre, Director General, BEE delivering Key note address apprised audience about various multi-directions schemes being launched by Bureau of Energy Efficiency, in order to meet the objectives of National Action Plan of Climate Change. Shri Bakre informed that under National Mission for Energy Efficiency commendable result have been achieved under PAT Cycle-I. Chief Guest, Shri Satyendra Jain, Hon'ble Minister for Power, Health, PWD & Urban Development, Government of NCT of Delhi appreciated the efforts of Delhi State Centre-IEI for conducting such seminar. Lamenting on the rising Energy Costs in the country.

Shri Praveen Kr Singh, Honorary Secretary, Delhi State Centre proposed the vote of thanks.

### **World Standards Day-2017 on “Standards Make Cities Smarter”**

**October 14, 2017 • New Delhi**

Shri Devendra Gill, Chairman, Delhi State Centre-IEI, welcomed the guests and dignitaries. Shri Pradeep Chaturvedi, Council Member-IEI delivered key note address. Delivering his address in Hindi, Chief Guest of the function, Dr Girdhar J Gyani stated tremendous shift has taken on the concept of Healthcare. In Early days, Healthcare was considered as Simple, Ineffective & Safe while in modern times it is considered as Complex, Effective yet Unsafe. Dr Gyani mentioned that today's Healthcare is Organizational System with complex embedded processes to deliver care. Lamenting on the current scenario of Healthcare, Dr Gyani mentioned today Patient are not feeling satisfied due to various reasons, like they want the best services with minimum cost. Shri Praveen Kr Singh, Honorary Secretary, IEI-DSC proposed the vote of thank.

### **Two Days All India Seminar on “Real Estate Industry and Agricultural Potential of India: Issues and Challenges”**

**October 6-7, 2017 • New Delhi**

Shri Devendra Gill, Chairman, IEI-DSC delivered welcome address. Dr S M Goel, Convener, All India Seminar delivered the theme address. Shri Pradeep Chaturvedi, Council Member, IEI also graced the occasion and shared his views on seminar topic.

Dr. Man Singh, Project Director (Acting) & Professor, Water Science and Technology was the Chief Guest of the function and inaugurated the Seminar. Dr Man Singh in his address highlighted the critical issues that are not being addressed by the Government authority in ensuring the Agriculture potential of the Country as well as Real Estate Sector.

Shri Praveen K. Singh, Honorary Secretary, Delhi State Centre, IEI presented the vote of thanks.

### **World Habitat Day 2017 on “Housing Policies: Affordable Homes”**

**October 3, 2017 • New Delhi**

Shri Devendra Gill, Chairman, Delhi State Centre-IEI, welcomed the guests and dignitaries. Shri Pradeep Chaturvedi, Council Member-IEI delivered key note address. Shri A K Jain, Former Commissioner (Planning), Delhi Development Authority was the Chief Guest of the function and delivered the address on the theme: “Housing Policies: Affordable Homes”. In his address he covered in detail various topics like 40% of Population in Slums lack Access to Toilet, Unplanned, Unauthorized Colonies - Progressive Construction and sub-division of plots, narrow streets, no common space, etc. Speaker informed that under Housing for All Mission-2022 (Pradhan Mantri Awas Yojana), various Housing Norm Reforms, Planning Controls and Regulations, Housing Upgradation and Urban Renewal, Urban Renewal and densification, Housing Cost Reduction Strategies and Optimizing Housing Resources have been initiated and have started making an impact. Shri Praveen Kumar Singh, Honorary Secretary, The Institution of Engineers (India), Delhi State Centre coordinate the event and proposed the vote of thanks.

### **50th Engineers' Day on “Role of Engineers in a Developing India”**

**September 15, 2017 • New Delhi**

Shri N Venktesan, Former Member (Electrical), Railway Board was the Chief Guest of the function. Shri Pradeep Chaturvedi, Council Member, IEI delivered the Key-note Address. The function started with rich tributes paid to Bharat Ratna Sir M Visvesvaraya by offering flowers petals by the Chief Guest and other dignitaries.

Welcoming the Guests and Invitees, Shri Devendra Gill, Chairman, IEI-DSC briefed the audience about the achievements and contributions of Bharat Ratna Sir M. Visvesvaraya during his lifetime.



Hon'ble Chief Guest of the function Shri N Venkateshan, Former Member Electrical, Railway Board in his address appreciated the Institution of Engineers (India) for diversified initiatives, at pan India level, to address key issues that are impacting society on a larger scale. He also stressed that other professions like Doctor, Chartered Accountants etc; Engineering profession should be brought into legal framework, in order to ensure utmost quality.

On this occasion, One Boy & One Girl candidate each were conferred with Mrs. Bala Gulshan Tandon Award. Shri Praveen Kumar Singh, Honorary Secretary, IEI-DSC coordinated the programme and presented the vote of thanks

### **Safety Convention 2017 on "Industrial safety with focus on manufacturing excellence"**

**September 4-6, 2017 • New Delhi**

14th Safety convention was organized by the Centre, under aegis of Safety and Quality forum, during September 4-6, 2017 at Hotel Le Meridien, New Delhi. Hon'ble Shri Manish Sisodia, Deputy Chief Minister, Government of NCT of Delhi was the Chief Guest and Dr. Mangu Singh, Managing Director, Delhi Metro Rail Corporation Ltd and Shri K.S. Popli, Chairman and Managing Director, IREDA were Guest of Honors of the Inaugural Function. Shri N.B. Vasoya, President of the Institution of Engineers (India) presided over the function.

Shri Devendra Gill, Chairman, The Institution of Engineers (India), Delhi State Centre delivered welcome address. Chief Guest, Hon'ble Shri Manish Sisodia, Deputy Chief Minister, Government of NCT of Delhi congratulated the Institution of Engineers (India) for organizing this convention on Safety Issues. He said recently Delhi witnessed some unfortunate accidents of collapse of garbage mound and death of workers while working in sewage line. These could have been avoided with proper safety awareness of hazard potential.

The session ended with a vote of thanks presented by Shri Praveen K. Singh, Honorary Secretary, Delhi State Centre, IEI.

A large number of papers on various topics, such as, Industrial Safety and Manufacturing Productivity, Manufacturing and Environmental Safety, Safety in Public Life, Safety In Energy Sector, Road and Transport Safety, Safety in Construction Sector etc were presented and discussed during the plenary sessions and Technical Session.

### **First Northern Zone IEI Alumni Meet 2017**

**September 3, 2017 • New Delhi**

IEI Alumni Association with Delhi State Centre organised the First Northern Region IE(I) Alumni Meet on September 3, 2017. Shri Devendra Gill, Chairman Delhi State Centre welcomed the guests and participants and lauded the efforts of Organisers and the large number of Alumni who were present. It was a great moment when Hon'ble Shri Ashwani Lohani, Chairman, Railway Board, gave away Distinguished Alumni Awards to the nominated Alumni and released the third edition of IEI Alumni

Newsletter. Shri Ashwani Lohani was also conferred with Distinguished Alumni Award. Shri O P Goel, Past President, IEI honoured him with this award. On this occasion, meritorious students securing highest marks in Section-A&B Examinations were also presented Ms. Bala Gulshan Tandon Awards. The Chairman, IEIAA, Dr. Enti Ranga Reddy, Er. Navin B. Vasoya, President IE(I), Shri O P Goel, Past President, Lt Gen J S Ahluwalia (Retd), Chairman, Safety & Quality Forum, IEI, Shri Pradeep Chaturvedi, Council Member and Maj Gen S Bhattacharya, VSM (Retd), Secretary & Director General also graced the occasion and shared their views with the august gathering. Vote of thanks was proposed by Shri Praveen Kr Singh, Hon. Secretary, IEI-DSC.

### **24th Dr S P Luthra Memorial Lecture**

**July 27, 2017 • New Delhi**

Prof. Prem Vrat, Pro-Chancellor, Professor of Eminence & Chief Mentor, The North Cap University was the Chief Guest & delivered Memorial Lecture on topic "Quality of Engineering Education: The Need for Introspection". Prof Prem Vrat highlighted on the current technical education system in India. He mentioned that uncontrolled opening of Engineering Colleges with no proper monitoring has led to dilution of technical education standards in India during last one decade. He stressed that Colleges should be made capable to deliver three major components to the students, viz. attitude, skill and knowledge respectively in order to ensure utmost employment.

Welcoming the Chief Guest and audience, Shri Devendra Gill, Chairman, IEI-DSC apprised the audience about Dr. S.P. Luthra's contribution to Delhi State Centre.

Shri Praveen Kr. Singh, Honorary Secretary, IEI-DSC proposed the vote of thanks.

### **One Day All India Seminar on "Climate Change" under NLPC**

**July 8, 2017 • New Delhi**

Centre Organized this event in Hindi under NLPC. Dr S K Singh, Professor & Dean, Department of Civil and Environmental Engineering, Delhi Technological University was the Chief Guest of the function. In his address, Dr Singh comprehensively covered various issues pertaining to Environment problem and management in the area of NCT of Delhi. Other Speakers in the seminar Shri SA Varma, General Manager, DMRC delivered lecture on Climate Change: Problems, Initiatives taken by Delhi Metro Rail Corporation. Ms Sheetal Sharma, Assistant Manager (Environment), Sadbhav - Corson J V, Mundaka spoke on Climate : History and Future. Shri Nitin Sharma, Manager (Environment), Isolux Engineering, Gurugram gave his presentation on Climate Change – Difficulty and solution of settlement to the world. Hindi movie "Day after tomorrow" was also screened during the seminar.

Shri Devendra Gill, Chairman, Delhi State Centre-IEI welcomed the August gathering. Shri Praveen Kumar Singh, Honorary Secretary, DSC proposed the vote of thanks.

### **Proposed Events**

- 34th Maj Gen Harkirat Singh Memorial Lecture on April 7, 2018.
- World Telecommunication and Information Society Day on May 17, 2018.
- World Environment Day on June 5, 2018.
- 25th Dr S P Luthra Memorial Lecture on July 27, 2018.
- 34th National Convention of Environmental Engineers & National Seminar on "Environmental Pollution and Climate Change" during August 10-11, 2018.
- 34th National Convention of Mechanical Engineers & National Seminar on "Mechanical Engineering and Emerging Challenges for Manufacturing" during September 7-8, 2018.
- Royal Charter Day on September 9, 2018.
- 51st Engineers' Day on September 15, 2018.
- Safety Convention 2018 on "Safety Challenges of MSME Sector" during October 4-6, 2018.

**For further details, please contact :**

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