

IEI Celebrates

51st Engineers' Day

Theme: Digital Transformation: A New Industrial Revolution

The 51st Engineers' Day was celebrated by the Institution all over the country on September 15, 2018 to commemorate the 158th birth anniversary of legendary Engineer-Statesman Bharat Ratna Sir M Visvesvaraya. Brief accounts of the celebration as received from various Centres are highlighted hereunder.

CPWD Celebrates Engineers' Day in Association with IEI

Central Public Works Department (CPWD) celebrated Engineers' Day in association with The Institution of Engineers (India) on September 15, 2018 at Nirman Bhawan, New Delhi. Mr Sisir Kumar Banerjee, President of The



Institution of Engineers (India) graced the occasion as the Chief Guest. Mr Prabhakar Kumar Singh, Director General, CPWD presided over the function. Mr A S Arora, Additional Director General (TD), Mr Jayesh Kumar, Additional Director General (NDR), Smt Usha Batra, Addl Director General, (Arch) and other senior officials of CPWD were also present on the occasion.

At the outset, Mr Prabhakar Kumar Singh, Director General, CPWD, welcomed the Chief Guest, Mr Sisir Kumar Banerjee, President, IEI. Mr Sisir Kumar Banerjee, in his address expressed his sincere gratitude to DG, CPWD for taking initiatives to celebrate Engineers' Day by CPWD in association with IEI. Mr Banerjee highlighted various activities of IEI and various initiatives taken by IEI for the promotion of engineering profession in the country. He recalled the colossal contributions of the great engineer, Bharat Ratna Sir M Visvesvaraya on this occasion. Mr Banerjee further elaborated the theme of the Engineers' Day "Digital Transformation : A New Industrial Revolution". Mr Prabhakar Kumar Singh outlined CPWD's achievements in brief and its long-time association with IEI. He emphasised and appreciated the activities of IEI for the betterment of engineering fraternity of the country.

IEI HQ Cell, New Delhi

Mr Sisir Kumar Banerjee, President, IEI, paid rich tribute to Bharat Ratna Sir M Vesvesvaraya. The President, IEI greeted the Engineering Fraternity in the country and urged to adopt value and ethics exemplified by Sir M Visvesvaraya for national development. Mr H R P Yadav, Director HQ Cell, New Delhi along with other employees of HQ Cell, attended the ceremony.



STATE CENTRES

Andaman & Nicobar

The Chief Guest, Dr Mylswamy Annadurai, former Distinguished Scientist & Director, Chandrayan & Satellite Tracking Centre, ISRO, Bengaluru highlighted on satellites and how it is impacting the lives of the common people. 'Starting from Agriculture, Water Resources, Harnessing Sea Wealth, Weather Prediction, GIS Applications, Tele-medicine, Tele-education, Forestry etc., every sector is benefitted from the satellite', he added. Dr Annadurai also focused on the making of a satellite in which all branches of engineering have an important role to play. Earlier, Mr D Sathyamoorthy, Chairman of the Centre welcomed the guests and dignitaries. Dr Shrabani Mallick, Committee Member of Centre proposed the vote of thanks.



Andhra Pradesh



Dr P Udaya Bhaskar, Chairman, Andhra Pradesh Public Service Commission graced the occasion as Chief Guest and addressed the gathering. The Keynote Speaker, Dr Kranthi Kumar Elineni, in his speech, stated that as technological

advances are happening exponentially, solutions to problems push the boundaries of existing technologies. 'A point is reached when the existing technologies cannot be adopted as is and thus giving rise to a new industrial revolution', he added. He further continued that the first industrial revolution happened with the advent of Mechanization, steam power and weaving loom while the second consisted of mass production on assembly line and utilization of electrical energy. Dr Elineni also explained that with the advent of integrated circuits, third industrial revolution happened; enabling robotics, automation, computers and electronics and now this is at the brink of fourth industrial revolution in which the Digital Transformation is leading to Industry 4.0 enabled by networking. Earlier, Mr G V Srinivasulu, Immediate Past Honorary Secretary of the Center welcomed the gathering while Dr K P Rama Rao, Chairman of the Center presided over the function. Mr M Seshagiri Rao, Honorary Secretary of the Centre proposed the vote of thanks.

Assam

The Chief Guest, Mr V S Bhasakar, Additional Chief Secretary to the Govt. of Assam mentioned that now the common people have become IT empowered and many states of India are implementing the concept of Digital Transformation in faster ways to have more and more visible impact on the life style of common people. He further informed the house



about steps taken by the Govt. of Assam for spreading IT enabled services among its people every village of Assam is being tried to make an access point for Internet connectivity. The Keynote Speaker, Dr Sunandan Baruah, Director, Centre of Excellence, Nano Technology, Assam Don Bosco University, Guwahati in his address, presented a crystal clear picture on how the Digital Transformation is causing a revolutionary impact on the life style of common men and cited a number of practical examples to visualize the situation. Dr Baruah further informed the house about research works being carried out on Digital Transformation all over the world. Earlier, Mr Amitava Nath, Honorary Secretary of the Centre welcomed the gathering. Dr Aswini Kumar Barua, Chairman of the Centre also addressed the gathering. Mr Mahesh Barkataky, Immediate Past Honorary Secretary of the Centre presented a picture on the life and contribution of Sir M Visvesvaraya. Finally, Mr Amitava Nath proposed the vote of thanks.

Chhattisgarh



Dr M K Verma, Vice Chancellor, Chhattisgarh Swami Vivekananda Technical University, Bilai graced the occasion as Chief Guest and addressed the gathering. The Guest-of-Honour and Keynote Speaker, Mr S M Deshpande, Chief Engineer & Head (Technical), Chhattisgarh

Renewable Energy Development Agency, Govt. of Chhattisgarh, Raipur, in his address, informed that science has brought a classic change in the life of human being and Engineering can be termed as 'A branch of applied science'. He further narrated that changes in the engineering profession and engineering education have followed changes in technology and society by addition in various branches of disciplines were added and curricula were created to meet the critical challenges in society on technology front and to provide the welfare required to integrate new development into the economy. Earlier, Mr J P Saboo, Chairman of the Centre welcomed the function. Mr V K Basu, Past Chairman of the Centre presented a life sketch of Sir M Visvesvaraya.

Gujarat

Mr Bharat Singh Patel, Council Member, IET spoke on the theme of the day. Other dignitaries present on the occasion included Mr Sanjay Desai, Director & CEO, RBD Engineers Pvt. Ltd., Mr Vineet Parikh, Director, Pima Controls Pvt. Ltd. and Mr Ruchit Surati, CEO and Co-founder, LOcanix from different fields took active part and represented their views in the Panel Discussion organized on the day. Earlier, Mr Sandip B Vasava, Chairman of the Centre welcomed all delegates present in the function on this auspicious day and briefed about the importance of celebration of the day. Mr H U Kalyani, Honorary Secretary of the Centre proposed vote of thanks.



Haryana



Prof Ganeshi Lal, Hon'ble Governor of Odisha graced the occasion as Chief Guest. Mr Subhash Sudha, Member of Legislative Assembly, Thanesar (Kurukshetra), Mr Arun Saraf, Chairman, Haryana State Forest Development Corporation, Prof Tankeshwar Kumar, Vice-

Chancellor, GJ University, Hisar, Prof Dinesh Aggarwal, Vice-Chancellor, YMCA University, Faridabad and Prof B K Punia, Vice-Chancellor, Maharishi Dayanand University, Rohtak graced the occasion Guests-of-Honour. Dr M P Gupta, Advisor, Technology Education and Research Integrated Institute, Kurukshetra, welcomed the dignitaries. Mr K C Sethi, Council Member, IET,

highlighted in details the contribution and achievements made by Sir M Visvesvaraya. Prof Satish Kumar, Director, NIT Kurukshetra, in his keynote address stated that digital transformation influenced all sectors of the industrial economy. Mr Ajay Mahajan, Chairman of the Centre proposed the vote of thanks.

Himachal Pradesh

The Guest and Keynote Speaker, Dr Meenakshi Sood, Department Coordinator, Electronics and Communication Engineering, Jaypee University of Information, Waknaghat, Solan, in her address,



highlighted about the advent of the 4th Industrial Revolution, Digital Revolution- Digitization vs Digitalization, Artificial Intelligence and its Future Perspectives. She further elaborated that today's emerging technologies will have a similar effect on our society as water power and steam engines had at the end of the 19th century. 'The 4th industrial revolution makes three major changes such as Intellectualization of human and machine, virtualization of reality & virtual and hyper connection of human & things', she added. She explained that Industry 4.0- Connects the internet of things (IOT) with manufacturing techniques, enable systems to share information, analyze it and use it to guide intelligent actions, Incorporates cutting-edge technologies like robotics, artificial intelligence and other cognitive technologies. Mr Suneel Grover, Council Member, IET and Managing Director, HP State Load Dispatch Centre, Shimla after welcoming all present, elaborated how this development took place starting from the 1st Industrial Revolution (Industry 1.0) in 18th Century by Mechanization through steam engine, 2nd Industrial Revolution (Industry 2.0) in 19-20th Century by Mass production through electric energy, 3rd Industrial Revolution (Industry 3.0) in late 20th Century by Intelligent Information Revolution through computer and internet and 4th Industrial Revolution (Industry 4.0) in 21st Century through Internet of Things, Cloud, Big data, Artificial Intelligence and Mobiles etc. Mr Vishwa Mohan, Honorary Secretary of the Centre conducted the function. Mr S N Kapur, Past Chairman of the Centre proposed the vote of thanks.

Jammu & Kashmir

Mr Khurshid A Ganai, Advisor to Hon'ble Governor of Jammu & Kashmir graced the occasion as Chief Guest. Mr Ganai, in his address, highlighted how to promote IET through professionalism in the State and engineers would get a platform for exchange of ideas, keeping them abreast with latest developments in their respective fields of engineering.

Jharkhand



The Chief Guest, Lt Gen (Dr) V J Sundaram, PVSM, AVSM, VSM, (Retd), in his address, highlighted the progress in Missile Programmes of our country from past to present. He stressed that Public Sector Units need to be participated in all defense sector works as they have solid potential to embrace Make

in India initiative taken by the Govt. of India. Dr Sundaram also explained various upcoming space projects which needs participation of young engineering community and to gear up and support the GOI initiatives. The Guest-of-Honour, Mr Rana S Chakravarty, Director (Marketing), HEC Ltd. emphasized the importance of using digital components in manufacturing Industry. He also narrated how HEC is working towards industry 4.0 and its importance. He explained that various interconnecting factors of Industry 4.0 are interconnected through State-of-the-Art communication system which include Internet of Things, Internet of Services and Internet of People. Earlier, Mr Sanjay Sen, Chairman of the Centre, in his welcome address, narrated that Industries around the world are presently facing substantial challenges due to recent environmental, societal, economic

and technological developments which lead to the fourth stage of industrial revolution. He stressed that increased digitization which waves out traditional and conventional production concepts including mass production, batch production, continuous process flow and project is the need of the hour. Mr Manda Rajananda Kumar, Honorary Secretary of the Centre, proposed the vote of thanks.

Karnataka

Mr Ramachandre Gowda, Former Minister, Govt. of Karnataka and Mr S M Panchagatti, former Chairman, Karnataka Public Service Commission graced the occasion as the Chief Guest and Guest-of-Honour, respectively. Mr Janardhana Swamy, Former Member of Parliament, Chitradurga Constituency, in his keynote address explained how manufacture of products improved with digital transformation. Dr N Chikkanna, Chairman of the Centre presided over the function. Earlier, Mr Jasmail Singh, Honorary Secretary of the Centre, welcomed the guests and dignitaries present on the occasion. Dr N Chikkanna proposed the vote of thanks.



Kerala



Mr Satish Babu, President, InApp, Technopark, Thiruvananthapuram delivered the theme lecture. Earlier, Mr N Rajkumar, Chairman of the Centre welcomed the gathering and introduced the Speaker. Mr V Vijaya Kumar, Past Chairman of the

Centre narrated the life sketch of Sir M Visvesvaraya. A Special Lecture on 'Kuttanad Reconstruction / Rehabilitation Activities after Recent Flood' was delivered by Dr N N Panicker, Sahajivan Swaraj. Mr K S Udaya Kumar, Honorary Secretary of the Centre proposed the vote of thanks.

Madhya Pradesh

The Chief Guest, Mr J Santosh, Additional Director & Unit Head, CPRI, Bhopal, appreciated the role of the State Centre for its active involvement in the field of technical activities through Seminars, Workshops and Lectures for the benefit of engineering community. Mr S N Daga, Executive Director (Retd), BHEL, in his keynote address, elaborated in detail the present scenario of the entire field of Industries and day to day working in all sectors of society which are almost leading towards revolution in the life of every one. Dr S P Narayan, Chief Scientist (Rtd), CSIR, AMPRI, Bhopal while presided over the function, elaborated the role and contribution of engineers and scientists for the development in various engineering fields by digital transformation. Mr P P Agrawal, Council Member, IEI, in his address appreciated the role of digitalization in almost all areas in life but also lamented the misuse of technology in certain areas. Earlier, Mr Sunil Joshi, Honorary Secretary of the Centre, welcomed the dignitaries. Prof K K S Gautam, Past Chairman of the Centre, proposed the vote of thanks.



Manipur

The Chief Guest, Mr Karan Shyam, Hon'ble Minister for CAF & PD, Revenue, Weights & Measures and Relief & Rehabilitation highlighted the importance of Engineers in Nation building activities and stressed upon the need of enhancing the quality of construction in the State. He further expressed his desire to



extend cooperation to the fraternity of Engineers in the State and help in the process of land acquisition for the Centre. Earlier, Mr Chirom Dharmkumar Singh, Past Honorary Secretary of the Centre welcomed the gathering. Mr K Temba Singh, Chairman of the Centre presided over the function. Dr Kh Johnson Singh, Assistant Professor, Department of Computer Science & Engineering, NIT Manipur delivered the theme lecture. Mr N Shyamsundar Singh, former Chairman, Joint Electricity Regulatory Commission (Manipur & Mizoram) also spoke on the theme embracing many important points. Mr Th Joykumar Singh, former Chief Engineer, PWD Manipur, stressed upon the immediate need of acquiring of land for the State Centre. Mr Th Subhaschandra Singh of NIT Manipur proposed the vote of thanks.

Punjab & Chandigarh

Prof Ajay Sharma, Vice-Chancellor, I K Gujral Punjab Technical University, Jalandhar and Maj Gen G S Lamba VSM (Retd.), Principal, Baba Banda Singh Bahadur Engineering College, Fatehgarh Sahib, graced the



occasion as the Chief Guest and the Guest-of-Honour, respectively. Both the dignitaries highlighted that engineers have played a significant role for rapid growth of India and attaining highest economic rate. They further elaborated on various aspects of development and contribution of engineers of various streams. The Key Speaker, Dr Hardeep Singh, Professor and Head, Software & Information Systems, Guru Nanak Dev University, Amritsar in his address, spoke about three mutually interconnected factors, namely, digitization and integration of any simple to complex technical -commercial relation, digitization of products and service offers and new market models. Earlier, Mr Janak Raj Garg, Chairman of the Centre, welcomed distinguished guests. Mr S S Mundi, Honorary Secretary of the Centre, proposed the vote of thanks.

Tamilnadu

Dr G Ranganath, Chairman of the Centre, welcomed the august gathering. Mr T M Gunaraja, Council Member, IEI, highlighted the life-sketch of Sir M Visvesvaraya. Dr S Kalirajan, Head, Special Initiatives (Nuclear), L&T Construction, Chennai and Mr G Suresh Gopal, Senior General Manager & Head (Projects), Leitwind Shriram Manufacturing Limited, Chennai, graced the occasion as the Chief Guests and delivered lectures embracing the theme of the day. Mr R Ramanavas, Chairman, Kalpakkam Local Centre, IEI and Dr L Ramesh, Joint Honorary Secretary, Tiruvallur Local Centre, IEI, also attended the function. Mr R Ramdoss, Honorary Secretary of the Centre, proposed the vote of thanks.



Telangana



Mr B P Acharya, Director General, MCR HRD Institute & Special Chief Secretary to Government of Telangana graced the occasion as Chief Guest. Mr Acharya paying rich tributes to Sir M Visvesvaraya, stated that a grateful nation would remember this Great Son of India with admiration and gratitude. He further highlighted that the growth of Engineering Graduates are enhancing day by day, but due to lack of skills, many young engineers still facing unemployment. 'Engineers play a dominant role in the development of national and engineers should adopt innovative technologies for the progress of the nation', he added. Mr M B Praveen Kumar, Director (Technical), Hyderabad Metropolitan Water Supply and Sewerage Board, Hyderabad, in his address said that Sir Visvesvaraya

was a professional personified, a role model to emulate a leader with values and finally a personality endowed with high values in life. Earlier, Dr G Rameshwar Rao, Honorary Secretary of the Centre welcomed the gathering. Dr S Satyanarayana, Chairman of the Centre presided over the meeting. The programme concluded with the vote of thanks proposed by Dr K V N S V P L Narasimham, Committee Member of the Centre.

Uttar Pradesh



The Chief Guest, Mr Brijesh Pathak, Hon'ble Minister of Law, Justice, Non Conventional Energy and Political Pension, Govt. of UP, in his address called upon the engineers to follow the ideals of Sir M Visvesvaraya for contribution

in the development of the nation so that India could become one of the developed countries of the World. The Keynote Speaker, Mr S K Pandey, Senior Scientist of Indian Space Research Organization (ISRO), elaborated on the ongoing digital transformation and its impact on the society. He explained how big data, Cloud Computing, Internet of Things (IoT), Artificial Intelligence (AI), Robotics, 3D Printing and Industry 4.0 are changing the life style. Distinguished Guest, Mr B S Tiwary, Director Technical, UP Rajya Vidyut Utpadan Nigam Ltd., informed the audience regarding digital transformation being used in Thermal Power Stations of the State for better plant load factor and improvement of overall performance. Earlier, Dr Bharat Raj Singh, Chairman of the Centre, while welcoming the guests explained how digital transformation and Space Technology can be used in making essential service available in far off places of the country. Mr A K Gupta, Past Chairman of the Centre threw light on the life sketch and achievements of Sir M Visvesvaraya. Mr R K Trivedi, Honorary Secretary of the Centre proposed the vote of thanks.

West Bengal

The Chief Guest, Prof Parthasarathi Chakrabarti, Director, Indian Institute of Engineering Science and Technology (IEST), Shibpur, stated that Industries around the world are now facing substantial challenges



due to recent environmental, societal, economic and technological development regarding disruptive concepts of Internet of Things, Cyber Physical Systems or Cloud based Manufacturing, which lead to the fourth stage of industrial revolution. 'Increased digitization which waves out traditional and conventional production concepts including mass production, batch production, continuous process flow and project is the need of the hour', he added. He further continued that after the first industrial revolution where water and steam power was utilized for mechanizing production, during second industrial revolution, application of power was the priority to obtain mass production and during third industrial revolution, industrial automation was introduced. Prof Chakrabarti further narrated that now the fourth industrial revolution, termed as Industry 4.0 which is empowered by wide range of digital technology not only in digital realm, which involves artificial intelligence, machine learning, advanced robotics and new formation of automation, but also in physical realm including new materials like grapheme, genetic advances as well as biological realm which involves sensors, Internet of Things, Block Chain and Distributed Ledgers, 3D Printing, autonomous vehicles like drones, so on and so forth. Earlier, Mr Kashmir Lal Mallik, Chairman of the Centre delivered the welcome address. Mr Sisir Kumar Banerjee, President, IEI presented a about the importance of Engineers' Day. The life sketch of Bharat Ratna Sir M Visvesvaraya was read by Prof N R Bandyopadhyay, Dr M N Dastur School of Materials Science and Engineering, IEST, Shibpur. Mr Ranjan Dutta, Honorary Secretary of the Centre proposed the vote of thanks.

LOCAL CENTRES

Agra



Mr Devendra Singh Chaudhary, former Chief Engineer graced the occasion as Chief Guest. Mr A S Sharma, DGN, BSNL, Agra explained about the digital transformation in the area of communication from

manual telephone exchanges to digital automatic telephone exchanges, mobile phone, whatsapp, facebook and other digital media. Prof D K Chaturvedi, Dayalbagh Educational Institute, Agra highlighted about the digital revolution and its effects. 'Due to digitization mobile towers, we see lot of magnetic field generated around us and natural things disturb', he added. Mr D S Chaudhary, Immediate Past Chairman of the Centre narrated about Sir M Visvesvaraya and about the theme of the day. Dr A B Lal from the Centre proposed the vote of thanks.

Ahmednagar

The Chief Guest Mr Rahul Dwivedi, District Collector & District Magistrate, Ahmednagar, said that skilled engineers play pivotal role in the development of the nation. He urged engineers to adopt innovative ideas and new technology in their respective fields and contribute in industrial revolution. Dr Devendra



Kyatanavar, Principal, Sanjivani College of Engineering (SCE), Kopergaon, in his keynote address, stated that digitalization is bringing tremendous changes in technology and everyday new versions of products are being released. Mr K M Raje, Past Chairman of the Centre, graced the occasion as the Guest-of-Honour and addressed the gathering. Mr Avinash D Kulkarni, Chairman of the Centre, presided over the function. Earlier, Mr R P Waykar, Honorary Secretary of the Centre welcomed the gathering and narrated the life sketch of Sir M Visvesvaraya. Prof D A Vidhate, Jt. Honorary Secretary of the Centre proposed the vote of thanks.

Aligarh

Dr Gyan Prakash, Chairman of the Centre, welcomed the gathering and delivered his introductory remarks. The Chief Guest, Prof Mohibullah, Former Dean, Faculty of Engineering & Technology, Aligarh Muslim University (AMU), Aligarh, addressed the gathering on the theme and shared some of his experiences. Prof S S Alam, Past Chairman of the Centre, delivered a thematic address on 'Digital Transformation: A New Industrial Revolution'. Prof Mohammad Kamil, Convener of the programme & Immediate Past Chairman of the Centre, presented a life sketch and contribution of Sir M Visvesvaraya in the field of engineering and technology. Prof Kamil also proposed the vote of thanks.

Allahabad



The Chief Guest, Mr Sidharth Nath Singh, Hon'ble Minister, Govt. of Uttar Pradesh called upon the Engineers to make a resolution of using their creative energy towards the progress of our country. He further made the Engineers awareness of their responsibility towards making

the country a big power on the global platform. The Guest-of-Honour, Mr M M Bhatia, Chief Engineer, Indian Air Force, in his address enriched the knowledge of audience on the theme of the day. Earlier, Mr B N Sharan, Chairman of the Center welcomed the Chief Guest and other dignitaries present on the occasion. Mr Awdhesh Kumar, Honorary Secretary of the Center proposed the vote of thanks.

Alwar



Mr Sunil Gupta, Additional Chief Engineer, PWD, Govt. of Rajasthan graced the occasion as Chief Guest. Mr Gupta, in his address, praised the Engineers for their role in developing the nation. Mr Manohar Lal Yadav, Chairman of the

centre delivered the welcome address and presided over the function. Mr K L Sharma, Past Chairman of the Centre spoke on the theme of the day. Other dignitaries present on the occasion included Mr R L Aggarwal, Wing Commander Mangal Singh and all others highlighted the achievements of Sir M Visvesvaraya. Mr Devi Singh, Chief Organizer of the event extended the vote of thanks.

Anantapuram

Mr Y Appa Rao, Superintendent Engineer, AP Transco, Anantapuram graced the occasion as Chief Guest and hailed the services of the great Engineer Statesman, Sir M Visvesvaraya. Mr P Narasimha Siva Teja, Committee Member of the Centre welcomed the gathering. A lecture was delivered by Prof C Shoba Bindu, Department of Computer Science & Engineering and Coordinator, Software Development Centre, JNTUA Anantapuramu. Mr K Hema Chandra Reddy, Past Chairman of the Centre presented a life sketch of Sir M Visvesvaraya. Prof C Sashidhar, Chairman of the Centre proposed the vote of thanks.



Angul

The Chief Guest, Dr Tapan Kumar Chand, Chairman & Managing Director, National Aluminium Company (NALCO) highlighted the fact that Industries like, NALCO have to adopt different facets of industry 4.0 at the earliest in order to remain globally competitive besides improving upon their productivity & efficiency. Dr Chand further mentioned the gruesome challenge of dealing with unemployment that would result because of higher extent of automation across different sectors. The Chief Speaker, Dr Ganapati Panda, former Deputy Director, IIT Bhubaneswar enumerated the myriad areas where Digital Transformation is helping the mankind and also the world of possibilities that is in store for us in



near future courtesy this New Industrial revolution. The Guest-of-Honour, Mr R K Mishra, Executive Director (S&P) in his speech threw light on the evolution of Science & Technology right from the First Industrial Revolution to the current world of Digital Transformation. He also stressed on the fact that Industries like, NALCO will reap rich dividends by adopting the state of the art Automation methodologies across their shop floors. Earlier, Mr S K Dogra, Chairman of the Centre welcomed the guests and dignitaries while Mr Satyabadi Mishra, Honorary Secretary of the Centre gave brief introductions of the esteemed guests besides giving a brief synopsis of the numerous events carried out in the centre last year. Mr Sibaram Panda proposed the vote of thanks.

Anpara

The Chief Guest, Mr R K Sitani, Plant Head, Grasim Industries, Hindalco Group, Renukot appealed to the Engineering fraternity to follow the path laid down by the great engineer & statesman, Sir M Visvesvaraya. He called upon the technical experts to work for the betterment by setting up a task force and mutual sharing of their knowledge. Mr Deepak Kumar,



General Manager, Anpara Thermal Power Station and Mr Rabin Sarkar, General Manager, Lanco Power, Anpara graced the occasion as Guests-of-Honour. Mr Sandeep Kumar Mishra delivered the keynote address on the theme, which dealt with the detailed account of various issues concerned with the appropriate engineering responsive technology inclusively. Earlier, Mr U C Mishra, Chairman of the Centre welcomed the august gathering. Mr Mukesh Kumar Singh, Honorary Secretary of the Centre proposed the vote of thanks.

Asansol

The Chief Guest, Mr A Dasgupta, Chief Executive Officer, SAIL-ISP, Burnpur highlighted some anecdotes of Sir M Visvesvaraya's life, portraying his sincerity and honesty. Speaking on theme, Mr Dasgupta stated that in the present day's context, new generation industries like, SAIL-ISP where state-of-the-art



technology is in place, there is abundant availability of field data captured through Level II or Level III automation application but engineers have to make good use of those captured data by proper analysis in determining process flow and appropriate process control measures. 'These modern machineries are never the less very sensitive and calls for utmost care in handling to achieve desired results', he added. The Guest-of-Honour, Mr P K Mishra, Divisional Railway Manager Asansol enunciated the engineering industrial revolution in the world as a whole. He enumerated on different basic elements like Data capturing, Data integrity, Analysis and synthesis of field Data and their meaningful transformation in decision making in process industries in the context of Digital Transformation. He further emphasized that to remain competitive industry has to adapt to digitalization as a way of life. The Special Guest, Mr C S Sinha, Executive Director (P&A), SAIL-ISP-Burnpur mentioned that the life story of Sir M Visvesvaraya will definitely encourage all the engineers to dedicate their services in nation building. Earlier, Mr K V R Raju, Chairman of the Centre welcomed the gathering. Mr T T Lahiri, Honorary Secretary of the Centre proposed the vote of thanks.

Aurangabad

Hon'ble Mr Haribhau Bagade (Nana), Speaker, Maharashtra State Legislative Assembly graced the occasion as Chief Guest and presided over the function. Mr P L Kokil, Managing Director, Sanjay Techno Plast Pvt. Ltd., Aurangabad delivered the



keynote address on the theme. Mr A P Kohirkar, Executive Director, Godavari Marathwada Irrigation Development Corporation (GMIDC), Aurangabad, Mr K T Patil, Chief Engineer, PW Region, Aurangabad and Mr Suresh Ganeshkar, Chief Engineer, MSEDCL, Aurangabad graced the event as Guests-of-Honour. Dr Sudhir D Deshmukh, Chairman of the Centre presented the detailed information regarding the activities of the Centre. Mr A K Sasane, Honorary Secretary of the Centre briefed the life sketch of Sir M Visvesvaraya. The programme was concluded with the vote of thanks proposed by Mr K M Sayyad, Committee Member of the Centre.

Barauni

Mr R C Rai, Deputy General Manager-cum-ESC (Tech), Barauni Thermal Power Station (BTPS), Begusarai graced the occasion as Chief Guest and garlanded in the portrait of Sir M Visvesvaraya. Mr Rai delivered lecture on the theme of the day. Other dignitaries namely, Mr S K Singh, Chairman & Mr Niraj Kumar Singh, Honorary Secretary of the Centre were also present. Mr Ravi Bhushan & Mr Shadabul Hashan from



EEE, BTPS graced the occasion with their august presence and spoke on the theme of the day.

Bareilly

Mr R K Chopra, Vice President, Kribhco Fertilizer, Shajhanpur and Mr Rajeev Swami, Superintendent Engineering, PWD, Bareilly graced the occasion as Chief Guest and Guest-of-Honour respectively. Mr B R Dutta,



Dean Academy, ANA College, Bareilly mentioned that the Digital Transformation is the key for Industrial Revolution 4.0. Mr Hemant Yadav, Director, Prem Prakash Gupta Institute of Engineering &

Management, Bareilly expressed that an organization has to align to digital transformation considering all aspects. Mr Shivanshu Pathak, Deputy Manager (Inst.) Kribhco Fertilizer Ltd., Shajhanpur explained that the Industrial Internet of Things originally described the IoT (Internet of Things) as it is used across several industries such as manufacturing, logistics, oil and gas, transportation, energy/ utility, mining and metals, aviation and other industrial sectors and in use cases which are typical to these industries. Mr Vishal Sharma & Mr Shivang Gupta, Rajshree Institution of Group, Bareilly explained that the new paradigm is the convergence of a digital communication internet, a digital renewable energy internet, a digital automated transportation and logistics internet, to create a super-internet of things infrastructure. Earlier, Mr Subhash Mishra, Chairman of the Centre welcomed the gathering. Dr Pankaj Sharma, Honorary Secretary of the Centre proposed the vote of thanks.

Belapur

Mr V C Kamble, Past Chairman of the Centre, delivered the welcome address. Mr S P Singh, Honorary Secretary of the Centre, briefed about the biography of Sir M Visvesvaraya. Mr Biswa Das, Rolta India, Mumbai, graced the occasion as the Keynote Speaker. Mr Das in his address, enlightened the gathering about digitalization in industry and Internet of Things (IoT). Mr M B Dagaonkar summed up the programme. Prof P N Tandon, Past Chairman of the Centre, proposed the vote of thanks.

Berhampur

Mr Ashutosh Patra, Chairman of the Centre, presided over the function and welcomed the august gathering. The Chief Guest Mr A J Janarthanan, Chief General Manager & Head, Indian Rare Earths Ltd., OSCOM, Matikhalo, Chatrapur, deliberated on the present industrial scenario of the state and the country. The Guest-of-Honour, Mr Garuda Seetharamayya, Project Head, Gopalpur Ports Ltd. focused on sustainable development of industries with application of updated technology relating to industry 4.0. The other Guest-of-Honour, Mr Ram Dahin Sao, Technical Head, Grasim Industries Ltd., Ganjam, highlighted the challenges being faced in the industrial sector and encouraged the engineers to play a leading role in this respect. The Chief Speaker, Dr Shashi Bhusan Singh, Registrar & Assistant Professor, Physics Department, IISER, Brahmapur, in his keynote address impressed upon the engineering community to acquire sufficient knowledge on emerging technologies and get themselves endowed with innovative ideas. Dr C V G K Murthy, Director (Project), Saraf Titanium Agency Pvt. Ltd, Chatrapur, encouraged the engineers to follow the footsteps and adopt the principles of the great engineers and transform India as the super power of the world. Mr Sanjaya Kumar Moharana, Honorary Secretary of the Centre, proposed the vote of thanks.



Bokaro Steel City

The Chief Guest, Mr P K Singh, Chief Executive Officer, SAIL, Bokaro Steel Plant, in his address stated that technical knowledge and expertise can only

augment the fast development of the society, state and the country. 'Role of infrastructure construction and digital technology transformation is vital and essential for which young engineers should come forward to accelerate



the pace of development of the Country', he opined. The Guest-of-Honour, Mr R C Srivastava, Executive Director (Projects), SAIL, Bokaro Steel Plant, stressed upon the fast decision making covering risk factors in execution of projects for development. Mr B K Prasad, Deputy General Manager (C & IT), SAIL, Bokaro Steel Plant, elaborated various aspects of digital technology transformation and its usefulness. Earlier, Mr A C Goyal, Chairman of the Centre, welcomed the gathering and elaborated theme of the day. Mr Y N Singh, Honorary Secretary of the Centre, proposed the vote of thanks.

Coimbatore

Dr S Thangavelu, Chairman of the Centre, welcomed the guests and presided over the function. Mr P Ponram, Chairman, Union Engineers, Coimbatore graced the occasion as the Chief Guest and addressed the gathering on the theme of the day. Dr P Karuppuswamy, Committee Member of the Centre, introduced the Chief Guest. Dr M Senthilkumar, Honorary Secretary of the Centre, proposed the vote of thanks.



Dhanbad



The Chief Guest, Mr Shashi Ranjan, Deputy Development Commissioner, Dhanbad, in his speech emphasized that benefit of digital transformation has reaching to the public even in the remote area

and general public is aware of their right of the facilities being forwarded by the government administration. The Guest-of-Honour, Mr R N Singh, Deputy Director General (Mechanical) HQ, DGMS, Dhanbad, highlighted the role of the digital transformation in improving the benefits by the public to give maximum advantages by creating transformation in the country. Mr H N Karmakar, Past Chairman of the Centre delivered speech on the theme of the day. Earlier, Dr S K Singh, Chief Scientist, CSIR- Central Institute of Mining and Fuel Research, Dhanbad delivered welcome address. Dr T N Singh, Past Chairman of the Centre presided over the function and delivered the address. Dr K K Singh, Honorary Secretary of the Centre presented a life sketch of Sir M Visvesvaraya and proposed the vote of thanks at the end of the programme.

Dharwad

The Chief Guest, Dr C B Akki, Professor, Computer Science Engineering, Indian Institution of Information Technology (IIIT) Dharwad, explained the role of cyber physical system, cognition computation and Association rule in managing all the processes in all fields of industrial and engineering systems. 'Internet of Things (IoT) is now encompassing everything thus leading to Internet of Everything (IoE) and the digital transformation is leading to an Industrial Revolution 4.0', he added. Mr S M Venkareddy Narayan, Chairman of the Centre, presided over the function. He highlighted that the world is becoming smart in all aspects due to the advancement of science and technology leading to better comfort of the society. Earlier, Mr V H Jadhav welcomed the gathering. Mr A K Kulkarni briefed about the



significance of day and presented the life-sketch of Sir M Visvesvaraya. Prof (Dr) Ramesh L Chakrasali, Honorary Secretary of the Centre, proposed the vote of thanks.

Durgapur

The Chief Guest, Mr A R Dasgupta, Executive Director (Projects), SAIL-Durgapur Steel Plant highlighted that Sir M Visvesvaraya was internationally popular Civil Engineer for his brilliance and his great achievement in harnessing water resources in India. He further narrated that industrial



revolution has started from Industry 1.0 to the present industrial revolution 4.0 and nine pillars of industrial revolution 4.0. i.e. Simulation, Additive Manufacturing, Cyber Security, Cloud Computing, Internet of things, Big data,

Autonomous Robots, System Integration & Augmented Reality. Prof N K Roy, Department of Electrical Engineering, NIT Durgapur and Dr D V Rajan, Superintending Engineer, Damodar Valley Corporation, Durgapur Steel Thermal Power Station, Andal graced the occasion as Guests-of-Honour and addressed the gathering. Earlier, Mr R K Roy, Chairman of the Centre, in his welcome address, recalled the life time achievements of Sir M Visvesvaraya and urged the Engineers to come forward to take necessary steps to make digital India. Mr M N Bandyopadhyay, Honorary Secretary of the Centre, in his introductory address stated that digitalization is essential in our day to day activities for our daily life and also it is essential for our industrial revolution 4.0. He also proposed the vote of thanks at the end of the function.

Fariadabad

Mr Balraj Joshi, Chairman & Managing Director, NHPC Ltd. graced the occasion as Chief Guest of the function and shared the experiences in his organization related to special efforts made in the field of digitization. Mr M L Sharma, Chairman, Glen Appliances Pvt. Ltd. and Mr M P Rungta, Chairman



& Managing Director, Cosmos Fibre Glass Pvt. Ltd. graced the occasion as Guests-of-Honour of the function. Mr Bhatia shared his experiences organization related to special efforts made in the field of digitization. Mr Rungta also addressed the gathering highlighted various aspects of digital transformation in industry. Earlier, Mr Subhash Chander, Chairman of the Centre, while delivering the welcome address stated that today's deliberations on the subject shall help delegates acquire additional skills on digitization and to bring in improvements in their respective work areas. The Honorary Secretary of the Centre, Mr Sandeep Handa, in his thematic speech, stated that engineering is the professional art of applying science to the optimum conversion of natural resources to the benefit of man. 'There is no room for complacency in the fast moving digital world. The only wrong move when it comes to Digital Transformation is not to make any move at all', he opined. Mr J P Singh, Immediate Past Chairman of the Centre proposed the vote of thanks.

Ghaziabad

The Chief Guest Mr Vijaya Singh, former General Manager, Indian Railways & former Managing Director, Tata Projects Ltd. analyzed the role of digital transformation in daily life especially in rural and middle sector of the society and put forward various challenges in its implementation. He



further dealt upon its impact on rural economy. The Guest-of-Honor, Mr M K Seth, ITS Chief General Manager, Advanced Level Telecom

Training Centre, Ghaziabad narrated various forms of Digital Transformation and explained each one of them by citing practical examples. The Keynote Speaker, Prof R P Maheshwari, Director, Raj Kumar Goel Institute of

Technology highlighted about the Digital Transformation and its meaning, usefulness and explained how to bring comfort and change in the quality of life. Mr R R Tanwar, Council Member and Chairman of Electrical Engineering Division Board, IET presented a brief account of various activities of IET and exhorted all to take advantage of them. Earlier, Prof H S Sharma, Chairman of the Centre, welcoming the guests highlighted the contribution of Sir M Visvesvaraya in the development of nation and also spoke about the usefulness of Digital Transformation for the advancement and prosperity of the Nation. Prof S C Gupta, Honorary Secretary of the Centre proposed the vote of thanks.

Gorakhpur

Mr Rohit Singh Sajwan, Superintendent of Police, North Gorakhpur, graced the occasion as Chief Guest. The Keynote Speaker, Dr Sanjay Mishra, Associate Professor, Madan Mohan Malviya University of Technology,



Gorakhpur explained, in details, the term Digital Transformation and deliberated how in the last decades the digital transformation has revolutionized the every aspect

of human life. He described how an organization/ industry can transform itself by adopting various digital technologies like artificial intelligence, cloud computing, sensor technology and internet etc. Dr Mishra further emphasized on the various challenges the company has to face for restructuring the organizations and implementing new regulations while transforming to digital ecosystem. Special Guest on the occasion, Mr Jyoti Prakash Maskara, Director, Mahabir Jute Mills (MJM), Gorakhpur and President of Chamber of Industries, Gorakhpur mentioned that MJM Gorakhpur is the only jute mill in Uttar Pradesh, Bihar and Madhya Pradesh running successfully for more than eight decades. Being very close to machine and human, he expressed some fear from digitalization of industries or digital transformation in industries. Earlier, Mr V K Srivastava, Honorary Secretary of the Centre welcomed the gathering. Mr M W Beg, Chairman of the Center highlighted the theme of the Day. Mr Satish Singh, Past Honorary Secretary of the Centre proposed the vote of thanks.

Indore

Dr Rakesh Saxena, Director, SGITS Indore graced the occasion as Chief Guest and addressed the gathering. Mr Shailendra Gupta, AVP, Yash Technologies, Indore, graced the occasion as Guest Speaker. Dr Prashant Bansod, Chairman of the



Centre delivered the welcome speech and threw light on the background of Engineers' Day. Mr Dinesh Wadhwa, Honorary Secretary of the Centre proposed the vote of thanks at the end of the programme.

Jabalpur

The Chief Guest Mr Nand Kumarum, Managing Director, Madhya Pradesh Poorva Kshetra Vidyut Vitran Company Ltd. Jabalpur appreciated the work done by IET appealed to organize detailed workshop to usher the new



theories and to perform research in association with East Discom. Mr Alok Dave, former General Manager, Rail Coach Factory, Raibarely, Dr Dinesh Chandra Chaurasia, Past

Honorary Secretary of the Centre and Mr P Rajagopalan, Technical Advisor, Mumbai graced the occasion as the Guests-of-Honour. Mr Rajagopalan delivered the keynote address on the theme. Earlier, Mr Virendra Kumar Sahu, Chairman of the Centre delivered the welcome address. Mr Tarun Kumar Anand, Honorary Secretary of the Centre delivered speech on the theme. Dr Mukta Bhatele conducted the programme and Brig Vipin Kumar Trivedi proposed the vote of thanks.

Jamshedpur

Mr Dipankar Sen Gupta, Past Chairman of the Centre graced the occasion as Chief Guest. The Keynote Speaker, Mr Prateep Misra, Head, Technology & Engineering and Chief Architect of TCS IOT Platform – Connected Universe Platform (TCUP) spelt out about Industries around the world are now facing substantial challenges due to recent environmental, societal, economic and technological developments regarding disruptive concepts of Internet of Things, Cyber Physical Systems or Cloud based Manufacturing, which lead to the fourth stage of industrial revolution. 'Industry 4.0 is focused



on creating intelligent products, processes and procedures that leads to ubiquitous connectivity of people, things and machines and this is likely to be adopted worldwide and it might influence other initiatives and cooperative efforts', he added. Earlier, Mr Avneesh Gupta, Chairman of the Centre while delivering the welcome address, spoke about the importance of Engineers Day and introduced the theme of the day. On this occasion, Mr Neeraj Kant, Managing Director, IWC was Honoured with 'Distinguished Engineers Award' and Dr Rekha Chaudhary, Principal, Maryland Institute of Technology, Jamshedpur was Honoured with 'Lady Engineers Award'. The function was concluded with vote of thanks proposed by Prof Shalendra Kumar from NIT Jamahsedpur.

Jodhpur

Prof S K Parihar, Chairman of the Centre delivered the welcome address. Mr S K Mishra, General Manager and Project Director, National Highways Authority of India, Jodhpur, graced the occasion as the Chief Guest and addressed the gathering. Prof (Dr) Shantanu Chowdhury, Director, Central Electronics Engineering Research Institute, presided over the function. In his address, Prof Chowdhury explained that due to the easy availability of information technology, hardware and software, there has been considerable change in industrial processes and operations. 'In this context, the main interaction has been done through the production of modern sensors and through the interdisciplinary telecommunications', he added. Mr Gautam Arora, Divisional Railway Manager, North Western Railway; Mr Jaswant Khatri, Superintending Engineer of PWD and Mr Navneet Agarwal, General Manager, IET Group of Institution were present as Special Guests. Prof Akhil Ranjan Garg, Honorary Secretary of the Center, proposed the vote of thanks.



Kadapa

Mr G Gopal, Chairman of the Centre, presided over the function and paid tributes to Sir M Visvesvaraya. He explained how Sir M Visvesvaraya could be emulated as a Role Model. The Chief Guest, Mr Syed Magbul Ahmed, Chief Engineer (Projects), Telugu Ganga Projects (TGP), Kadapa, graced illustrated on the sterling qualities of Sir M Visvesvaraya. Dr B Abdul Rahim, Dean, Professional Bodies, AITS, Rajampet, discussed various aspects embracing the theme of the day with latest information. Mr C Sree Ramachandra Murthy, Honorary Secretary of the Centre, enlightened the audience about the significance of the day and advised the budding engineers to imbibe the character of Sir M Visvesvaraya. The function ended with the vote of thanks proposed by Mr V Adinarayana Reddy, Committee Member of the Centre.



Kalaburagi

The Chief Guest, Mr Subodha, Yadav, Regional Commissioner and Secretary, Hyderabad Karnataka Region Development Board Kalaburagi, in his address

urged the gathering to serve the Nation by devotion and dedication to duty for the Nation. The Guest-of-Honour, Prof H M Maheshwaraiah, Vice Chancellor, Central University of Karnataka, appealed all Engineers to render



their services for the cause of Nation by following the foot-prints of Sir M Visvesvaraya. Mr Ashok Patil, Assistant Professor, PDA College of Engineering, Kalaburagi delivered the keynote address on the theme, briefing most important aspects. Mr M M Kadadi, Chairman of the Centre presided over the function. Dr Shashikant R Mise, Honorary Secretary of the Centre addressed the gathering, exhibiting the most illustrative projects and achievements of Sir M Visvesvaraya. Mr J L Shukla, Immediate Past Chairman of the Centre proposed the vote of thanks.

Kanpur

The Chief Guest, Prof Yatindra Nath Singh, Dean of Infrastructure & Planning, IIT Kanpur stated that Digital Transformation is essentially growth of connectivity, availability of cheaper computer devices, introduction of multilingual content and interfaces, leading to use of digital services by common men and this growth has given opportunities as well as challenges leading to emergence of new businesses and services. He further explained that new service industry has come up which maintains the resulting massive digital infrastructure. Earlier, Prof D P Mishra, Chairman of the Centre welcomed the Chief Guest and the other dignitaries present on the occasion. Prof Kumar Vaibhav Srivastava, Chairman, IEEE, Uttar Pradesh Section, presented a brief life sketch Sir M Visvesvaraya. Prof J Ramkumar, Immediate Past Honorary Secretary of the Centre proposed the vote of thanks.



Kanyakumari

The Guest-of-Honour, Dr T V S Pillai, Dean, University College of Engineering in his address, explained the hard tasks taken by Sir M Viswesvaraya. He further pointed out the town planning of Madurai City, which was designed some 1000 years ago. The Keynote Speaker, Dr S Arumuga Perumal of St Hindu College explained about Internet of Things (IoT) and Digital Transformation. He elaborated how Digital Transformation playing a key role for a New Industrial Revolution. Earlier, Dr M Edwin, Head, Department of Mechanical



Engineering delivered the welcome address. In his address, Mr G Sivasubramanian, Chairman of the Centre enumerated the great schemes such as, Krishna Raja Sahar Dam constructed under the guidance of Sir M Viswesvaraya. Mr V Sivathanu Pillai, Honorary Secretary of the Centre proposed the vote of thanks at the end of the function.

Kharagpur

Prof S K Roy, Metallurgical & Materials Science Engineering Department, IIT Kharagpur graced the occasion as the Chief Guest and addressed on the theme of the day. Earlier, Prof O P Sha, Chairman of the Centre, in his welcome address pointed out the contribution made by Sir M Visvesvaraya in the field of Engineering in India and emphasized the importance of observing this day. Prof D Maity, Honorary Secretary of the Centre proposed the vote of thanks at the end of the programme.



Kochi

Dr K Francis Jacob, Principal General Manager, BSNL inaugurated the ceremony as Chief Guest. Dr Jacob, in his address, expressed that the new revolutionary change of information technology has started reaching the common man. Mr Paul George, Chairman of the Centre welcomed the speaker and other dignitaries. Mr K K Gopalakrishnan Nair made commemorative speech, explaining the life and achievements of Sir M Visvesvaraya as an Engineer and administrator. Mr T P Raveendran, Honorary Secretary of the Centre proposed the vote of thanks.



Kolhapur

Mr Pratap Puranik, Proprietor, Pratap Packaging Products, Kolhapur and Managing Director, Mino Industries Pvt Ltd, Kolhapur, graced the occasion as the Chief Guest and addressed the gathering. Dr Amit Andre, Data Scientist & Senior Vice President, Vinsys IT Services, Pune delivered the Keynote address on the theme of the day. Earlier, Dr P V Kadole, Chairman of the Centre welcomed all the guests and dignitaries. Mr Manoj Chavan, Honorary Secretary of the Centre proposed the vote of thanks at the end of the programme.



Kota

Dr Indramani Mishra, ICAR- Indian Agricultural Research Institute, Pusa New Delhi graced the occasion as Chief Guest and expressed that engineers should be honest, hard worker and dedicate to the nation. He further explained that in agriculture field, every work is doing with Digital Information and Digital Transformation for benefit of farmers. The Guest-of-Honour, Mr V K Jain, Project Director, Rawatbhata Rajasthan site, Nuclear Power Corporation of India Ltd. (NPCIL), Kota expressed regarding the unit 5&6 of NPCIL Rawatbhata as based on Digital Transformation. Another Guest-of-Honour, Mr S P Majumder, General Manager from CESC, Kolkata highlighted about the Smart Meter, which is based on Digital Transformation. The Guest Speaker, Mr A K Gupta, former Managing Director, Jaipur Vidyut Vitran Nigam



Limited explained that those companies do not transform their way of doing business will eventually disappear. 'It's not about spending more on technology; it's about how we use this technology to benefit our employees and our business', he added. Other Guest Speaker, Mr G K Sharma, Additional Director (IT), Govt. of Rajasthan narrated that Digitalization is a process of social renewal that offers immense scope for positive change and it isn't limited to technology. Mr O P Saxena, Council Member, IEI mentioned that Engineering is a Nobel profession and everybody should proud of it. 'For development of India, engineers are doing so many innovations', he added. Earlier, Mr C K S Parmar, Chairman of the Centre welcomed the guests and dignitaries present on the occasion. Mr Jasamat Singh, Honorary Secretary of the Centre extended vote of thanks.

Kozhikode

Mr V K Adarsh, Senior Manager (Technical), Union Bank of India (Nodal Regional Office), Ernakulam elaborated on the theme and emphasized the need for Digital Transformation rather than translation. He mentioned the



contributions of engineers like Sam Pitroda, Nandan Nilkani etc. Prof K P Mohandas, Chairman of the Centre, in his address, emphasized the need for dedicated sincere effort on the part of all engineers in Kerala in rebuilding the State. He briefly narrated life sketch of Sir M Visvesvaraya. Earlier, Mr Jithesh C, Honorary Secretary of the Centre welcomed the august gathering. Mr Santhosh, Vice Chairman, Kerala State Electricity Board Engineers' Association proposed the vote of thanks.

Ludhiana

The Chief Guest, Dr Sehijpal Singh, Principal, Guru Nanak Dev Engineering College Ludhiana, stressed upon producing quality engineers who could take up the challenge of fast changing world. He suggested that proper interaction of industry with academia would go a long way in fostering young engineers. Earlier, welcoming the guests, Dr Arvind Dhingra, former Honorary Secretary of the Centre stated that Engineers' Day is celebrated to rededicate ourselves for propelling the cause of engineering. Mr Balbir Singh, former Council Member, IEI, elaborated the theme of the day. While delivering the vote of thanks, Brig. Mastinder Singh, Chairman of the Centre mentioned that engineering community should work to uplift the society and resolve the problems. Summing up the technical sessions, he stated that Industry 4.0 is focused on creating intelligent products, processes and procedures that lead to ubiquitous connectivity of people, things and machine.



Madurai

The Chief Guest, Dr S Natarajan, District Collector, Madurai, in his address, mentioned that the entire world is moving towards digital era. 'From the days of Radio, the world has moved to Television, LCD TV, Cell phone and I-phones and from computer application moved towards Big data, Simulation, virtual images etc. which has made Industry a Vertical Integration', he added. He further requested the engineers to apply this in Engineering Advancement in rain water harvesting and to save every drop of water. He stated that



the desalting of all tanks is urgent necessity to improve the storage capacity and modernise the channel flow and quantify the usage correctly without any wastage. Earlier, Mr K Vijayakumar, Chairman of the Centre delivered the welcome address. Mr K Chakrapany, Past Chairman of the Centre highlighted the contribution and achievements of Sir M Visvesvaraya from his Biography. Mr P Rajamani, Vice President, IEI read out the Engineers Day Pledge and presented a memento to the Chief Guest. Mr J Samuel, Honorary Secretary of the Centre introduced the Chief Guest to the audience and proposed the vote of thanks at the end of the programme.

Meerut

Dr Sanjeev Kumar Sharma, Director, JP Institute of Engineering and Technology, Meerut graced the occasion as Chief Guest and addressed the gathering. The Keynote Speaker, Prof Dinesh Kumar, Head, Department of Mechanical and Industrial Engineering, IIT Roorkee, in his address, explained the challenges, which the Industries around the world are presently facing due to recent developments. 'The fourth stage of industrial revolution is on the way. The Conventional and traditional production concepts are being replaced by digitization', he added. Dr Inderdeep Singh explained the Innovative Product Design and manufacturing and said that the product life cycles are shrinking and gone are the days when a customer will use the same product for his life time. Mr S K Kumar, former Chief Engineer of UP Irrigation stated that the



floods in Kerala were fury of nature but disaster was worsened by lack of climate forecast and warning system. Earlier, Mr S C Govil, Chairman of the Centre welcomed the guests and dignitaries. Mr Rajneesh Kumar, Honorary Secretary Centre conducted the programme and proposed the vote of thanks.

Munirabad

Mr B G Eshwarappa, former Superintendent Engineer graced the occasion as Chief Guest and addressed the gathering. The Guest Speaker, Mr T Nazeeruddin, Head, TMAES Polytechnic College explained about the role of Engineers in the field of Digital Transformation and uses to be the industries in order to produce more products and profits with less investment adopting this technology. He further explained that the uses and benefits to the society and the facts & figures. Mr Rajashekhara Gowd P, Honorary Secretary of the Centre welcomed the guests and proposed the vote of thanks at the end of the programme.

Nashik

Dr Ravinder Kumar Singal, Commissioner of Police, Nashik and Mr Mahendra R Kothari, Council Member, IEI graced the occasion as the Chief Guest and Guest-of-Honour respectively and addressed the gathering. Mr Santosh Mutha, Chairman of the Centre welcomed the guests and dignitaries. Mr Vipul Mehta, Joint Secretary of the Centre compared the programme. Mr Ajit Patil, Honorary Secretary of the Centre proposed the vote of thanks.



North Bengal

Mr Asim Mahapatra, Honorary Secretary of the Centre, delivered the welcome address. Mr G K Panda, Chairman of the Centre, paid rich tribute to Sir M Visvesvaraya. Mr Animesh Hazra, Assistant Professor, CSE Department, Jalpaiguri Govt. Engineering College, Jalpaiguri briefly narrated the life-sketch of Sir M Visvesvaraya. The theme Speaker, Ms Jhuma Dutta, Assistant Professor, CSE Department, Jalpaiguri Govt. Engineering College, Jalpaiguri, stated that industries around the world are now facing substantial challenges due to recent environmental, societal and technological developments regarding innovative concepts of Internet of Things (IoT), cyber physical system or cloud based manufacturing which lead to the fourth stage of industrial revolution, termed as Industry 4.0. She briefly described various aspects of Industry 4.0. Mr N C Sadhukhan, Member of the Centre, proposed the vote of thanks.



Pantnagar

Dr B S Bisht, Former Vice Chancellor, G B Pant University of Agriculture & Technology, graced the occasion as the Chief Guest. Dr Bisht, in his speech, highlighted the valuable contributions of Sir M Visvesvaraya in building up of the nation. Other dignitaries present on the occasion included Dr H C Sharma, Dean Technology and Dr S S Gupta, Professor, Department of Civil Engineering, College of Technology.



Dr Sanjay Mathur, Chairman of the Centre expressed his views and spoke about important information about vision and mission of Sir M Visvesvaraya for better India. Earlier, Dr V K Verma, Honorary Secretary of the Centre welcomed the guests and dignitaries and highlighted the life-sketch of Sir M Visvesvaraya.

Pilani

Prof S B Dandini, Chairman of the Centre, welcomed the gathering. Maj. Gen. Anirudh Banerjee (Retd.), Chief Executive, B K Birla Institute of Engineering and Technology (BKBIET), Pilani and Dr A K Sarkar, Director, BITS Pilani, graced the occasion as the Chief Guest and Guest-of-Honour, respectively.



Maj. Gen. Banerjee addressed the gathering on the importance of the theme while Dr Sarkar shared his vast experiences related to the theme. Other dignitaries present on the occasion included: Dr L Solanki, Principal (Academics), BKBIET, Pilani; Mr Manoj Gaur, Principal, BTTI, Pilani; Mr J P Singh, Principal, ITI Pilani and Dr K S Sangwan, Professor, BITS Pilani. At the end of the programme, Ms Smita Pareek, Honorary Secretary of the Centre, proposed the vote of thanks.

Roorkee

The Chief Guest Mr Achal Khare, Managing Director, National High Speed Rail Corporation Ltd., New Delhi, in his Keynote address, spoke about implementation of project of first high speed train corridor between Ahmedabad and Mumbai which lies in Western Railway zone and shall convert imagination into reality through digital innovations. The Guest-of-Honour, Dr N Gopalakrishnan, Director, CSIR-CBRI Roorkee, mentioned that latest



trends in engineering sector have gone through digital transformation and Indian economy is expected to see higher growth in the coming future. The other Guest-of-Honour, Prof A K Chaturvedi, Director, IIT Roorkee, stated that engineers are indispensable to the emergence of the country as a major global economic power and are responsible for showcasing nation growth through their digital innovations resulting in transformation of new industrial revolution. Dr S P Gupta, Former Deputy Director, IIT Roorkee presented a brief life-sketch of Sir M Visvesvaraya and advised the engineers to imbibe his principles. Earlier, Mr Malvinder Singh, Chairman of the Centre, welcomed the august gathering and explained the theme of the day. Prof (Dr) Achal K Mittal, Honorary Secretary of the Centre, proposed the vote of thanks.

Rourkela

Mr P K Mehrotra, Chairman of the Centre, welcomed the dignitaries and the participants. The Chief Guest, Mr Prabhat Kumar Pradhan, Executive Director (P & A), Rourkela Steel Plant, advised that we should emulate the ideals, vision and leadership quality of Sir M Visvesvaraya to serve the society thereby contributing to the nation building. The Chief Speaker, Prof J K Satapathy, Former Vice Chancellor, BPUT and presently Professor of Electrical Engineering,



NIT Rourkela made a very comprehensive presentation on the theme of the day. Prof Satapathy described digital revolution as a raging tornado that is transforming technology at a breakneck speed. If we do not adapt this new technology, we would lose opportunity to influence development that would change our lives meaningfully. Prof S Jayanthu, Past Honorary Secretary of the Centre, proposed the vote of thanks.

Saurashtra

Mr Shirish Paliwal, Principal Director, National Productivity Council, Gandhinagar, graced the occasion as Chief Guest and addressed the gathering. The Theme Speaker, Dr Krupal N Vaghela, Assistant Professor, Computer Engineering Department, Marwadi University, Rajkot, in his address stated that on a digital platform, industry 4.0 is applied with three

mutually interconnected factors namely, Digitalization and integration of any simple to complex technical commercial relation. Digitalization of products and service offers new market models. He further presented detailed information about three principal approaches in industry 4.0 concept



mainly horizontal integration, vertical integration and integrated digital engineering. Earlier, Mr Navin R Kalaria, Honorary Secretary of the Centre and Prof P H Darji, C U Shah

University, Wadhawan welcomed the august gathering. Dr Vedvyas Dwivedi, Provost, C U Shah University presided over the function. Prof Veera Darji, Head, Mechanical Engineering Department, C U Shah Engineering College proposed the vote of hanks.

Silchar

Mr Nikhil Ranjan Choudhury, Chairman of the Centre, in his welcome address advised young Engineers to follow the ideals of Sir M Visvesvaraya. The Guest-of-Honour, Mr Y K Bansod, General Manager, BSNL, Silchar delivered the keynote address.

Another Guest-of-Honor, Mr M Sri Jagannadh, Deputy Manager, Star Cement Limited expressed his satisfaction the role of Engineers in the development of the country. Other dignitaries present on the occasion included Prof F A Talukdar, Head, Department of Electronics & Telecommunication Engineering, NIT Silchar and Prof Sudipto Roy of Assam University and spoke on the theme of the day. Mr D K Kundu, Honorary Secretary of the Centre proposed the vote of thanks.



Mr Hetal Mehta, President, Southern Gujarat Chambers of Commerce & Industry graced the occasion as Chief Guest and addressed the gathering. Mr Rohit Pandya, South Gujarat Regional Technical Head, ULTRATECH presented a brief information of the workshop. Dr D V Bhatt and Dr Atul S Shah graced the occasion with their valuable presence. Earlier, Dr P H Tandel, Chairman of the Centre welcomed the guests and dignitaries. Mr Mukund Master, Honorary Secretary of the Centre gave brief introductions of the esteemed guests with a brief summary of the Workshop and proposed the vote of thanks at the end of the function.

South Gujarat

Mr Hetal Mehta, President, Southern Gujarat Chambers of Commerce & Industry graced the occasion as Chief Guest and addressed the gathering. Mr Rohit Pandya, South Gujarat Regional Technical Head, ULTRATECH presented a brief information of the workshop. Dr D V Bhatt and Dr Atul S Shah graced the occasion with their valuable presence. Earlier, Dr P H Tandel, Chairman of the Centre welcomed the guests and dignitaries. Mr Mukund Master, Honorary Secretary of the Centre gave brief introductions of the esteemed guests with a brief summary of the Workshop and proposed the vote of thanks at the end of the function.



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Sunabeda

Prof K Ramji, Vice Chancellor, Dr B R Ambedkar University, Srikakulam graced the occasion as the Chief Guest and addressed the gathering. Mr Asutosh Mallick, General Manager, Engine Division, Hindustan Aeronautics Ltd. (HAL), Sunabeda, Mr D K Mohanty, Executive Director, NALCO, Damanjodi and Mr Debashis Deb, Executive Director, HAL, Koraput graced the occasion as Guests-of-Honour. Prof Pradipta Kumar Nanda, Dean (R&D), SOA University, Bhubaneswar delivered the Keynote Address. Earlier, Mr Jitendra Mohan Sahu, Chairman of the Center delivered the welcome address to the gathering and presented a brief life sketch of Sir M Visvesvaraya. Mr Guru Prasad Dash, Honorary Secretary of the Center briefed about activities of the Center. Mr Sunil Kumar Biswal, Convener of the event proposed the vote of thanks.



Mr Sunil Kumar Biswal, Convener of the event proposed the vote of thanks.

Tiruchirappalli

The Chief Guest, Dr Bhimaraya Metri, Director, Indian Institute of Management, Tiruchirappalli, in his address, stated that the revolutions in

the digital field created an imbalance in the industry. 'Since the evolution of smart manufacturing or Industry 4.0, the topography of employable skills is changing, the new skill sets are becoming the order of the day', he added. He highlighted that Industry 4.0 leads to new opportunities for employment



at the same time it disturbs existing jobs. 'We are moving driverless cars and even there may be a situation where nobody will own a car but enjoy the luxury of a car by getting cars on demand', he added. Mr P Raguraman, General Manager, Unit II, BHEL, Tiruchirappalli, in his address stated that Engineers play a

very significant role in every walk of our lives and they convert theoretical knowledge of basic sciences into actual products and thus make our lives easy. Earlier, Mr R Selvaraj, Chairman of the Centre welcomed the gathering. Mr S Lakshmanan, Honorary Secretary of the Centre proposed the vote of thanks.

Tirunelveli

Mr A Lawrence Walter graced the occasion as the Chief Guest. Mr Walter, in his address, highlighted the importance of Engineers' Day with a brief life-sketch of Sir M Visvesvaraya. He suggested that engineers should follow the path laid down by the great engineer Sir M Visvesvaray for the nation building activities. He felt that by 2050, instead of human civil constructions, robots will construct the world in all domains. Other dignitaries present on the occasion included Dr K Ramar, Mr M Olaganatha Shankar and Dr R Velayutham, Chairman, Honorary Secretary and Joint Secretary of the Centre, respectively.



Dr K Ramar, Mr M Olaganatha Shankar and Dr R Velayutham, Chairman, Honorary Secretary and Joint Secretary of the Centre, respectively.

Trichur



The Chief Guest, Prof Sunil Kumar C P, former Head, Govt. Engineering College, Thrissur in his address, threw light on how Internet of Things (IoT), Cloud Computing, Artificial Intelligence, Machine learning etc. revolutionized the Industry through digital technology intervenes. 'This

has pragmatically given rise to 4th Industrial Revolution termed as Industry 4.0', he added. Dr Sunil Kumar further described Digital Infrastructure of India to march towards transforming the country to Digital India. Earlier, Mr V Damodaran, Chairman of the Centre presided over the function. Mr Sugathan U K, Honorary Secretary of the Centre proposed the vote of thanks.

Tuticorin

The Chief Guest, Mr K Natarajan, Chief Engineer, Tuticorin Thermal Power Station (TTPS) enumerated that team work shall always reap dividends. He further mentioned that Sir M Visvesvaraya has been a role model and guiding leader for thousands of employees of TTPS in ensuring sustained operation of power plant and nurturing the environment by planting more than a thousand five hundred trees within a year in the plant and residential areas. Mr Natarajan highlighted the excellent contribution of Sir M Visvesvaraya towards water conservation, drip irrigation and building of dams in various states and countries across the world. He emphasized that we must keep "Service before Self" and reach out to all in need by sharing our knowledge and resources. Mr Saravanan,



Assistant Executive Engineer, TTPS, speaking on the theme explained in depth the great achievements in digital transformation and the challenges encountered in every walk of life during digital transactions. Mr S Aribu Sulthan, Chairman of the Centre welcomed the gathering and presided over the function. Earlier, Mr I Maria Michael Raj, former Senior Scientific Officer, Department of Atomic Energy & Convener of the event, introduced the Chief Guest. Mr E Henson Victoria, Honorary Secretary of the Centre proposed the vote of thanks.

Udaipur

The Chief Guest, Mr Ibrahim Ali, Former Director (Projects), Hindustan Zinc Ltd. emphasized on the quality education in Engineering and briefed that for employment, industry desires quality engineers but many of the engineering college students have lesser knowledge to get proper employment. The Keynote Speaker, Mr Pankaj Kumar, COO (Smelting Operations), Vedanta – Hindustan Zinc Limited, Udaipur, speaking on the theme shared his experience



and stated that money transfer from mobile to bank account is latest example of Digital transformation. Mr Anurodh Prashant, Chairman of the Centre welcomed the gathering and also highlighted about the theme and its importance. Mr Y K Bolia, Honorary Secretary of the Centre anchored the programme and proposed the vote of thanks.

Upper Assam

The Chief Guest, Mr Apurba Kumar Sarma, Executive Director, Eastern Asset of Oil, in his address, called upon all the engineers to discharge their duties in efficient and excellent way but not at the cost of the life supporting elements of the mother earth like air, soil, water and healthy environment. 'We have to serve the nation by considering the welfare of the stakeholders while we discharge our duties through various institutions, organizations in public or private domain', he added. The Guest-of-Honour, Ms Sukla Mistry, CGM & Unit Head, Digboi Refinery (IOCL-AOD) elaborated on the meaning of digitisation and its impact on the industries in the process of stage by stage up gradation. She further clarified that big data can bring big impact by citing the examples. She stressed upon on the change of mind set of everybody concerned which will ultimately lead India a major users of digital transformation and will successfully reap the benefit of this fourth stage revolution. Other Guest-of-Honour, Mr Hari Krishna Changmai, General Manager & Plant Head, AGBPP–NEEPCO stated that the array of equipment and some health instruments used by doctors to detect the diseases are due to the contribution of engineers in



the background. He called upon all the engineers to set the benchmarking at par with international level and to excel in their respective domain in the professional fronts. Earlier, Mr Amitava Dasgupta, Chairman of the Centre, in his welcome address, focused on the historic development of binary system, early digital computers, the history of the development of internet & the accelerated change and impact it brought in human society. He also highlighted the process of modern day's digital transformation in the industries globally and in our civic & personal life and its impact on our society. He also talked about the three industrial revolution that mankind has seen & the fourth Industrial revolution that mankind is going through presently. Mr Ramesh Chandra Das, Honorary Secretary of the Centre read out the life sketch of Sir M Visvesvaraya.

Varanasi

The Chief Guest, Mr Gyan Ptrakash Pandey, Chief Engineer, UPPWD (Varanasi Zone) focused on the importance modern of digital and communication systems in various areas of engineering practice, particularly in the areas of infrastructure development,



monitoring of the progress of the civil work and several related issues. He further stressed upon the era of ICT where there is a need for better coordination between different agencies to reduce delays and project over runs currently being seen all around in various sectors. He enumerated that digital communication and information technology tools will go a long way in implementing and completing various developmental projects on time. The Guest-of-Honor, Mr Alok Kumar Mishra, General Manager, BSNL, Varanasi enlightened the gathering by enumerating on the role of 2G, 3G, and 4G based digital communication systems and how BSNL played a key role in extending the vast network of communication and digital systems that are not only helping common people by making their life a lot more easier but also various aspects of financial and industrial sectors across the country. He, however also cautioned that in spite of enumerable advantages this technology too has its own problems. Earlier, Prof Anil Kumar Agrawal, Chairman of the Centre welcomed the guests and dignitaries. Prof Prabhas Bhardwaj, Honorary Secretary of the Centre presented a brief report highlighting the activities of IEL as well as of the Centre. Prof Siddh Nath Upadhyay, Convener of the event proposed the formal vote of thanks.

OVERSEAS CHAPTER

Baharain

Mr Vivek Helwatkar, Chairman of the Chapter, delivered the welcome speech. Mr Rajiv Kumar Singh spoke on the theme 'Digital Transformation: A New Industrial Revolution'. Mr Ramit Srivastava spoke on the topic 'Environment and Green Buildings' and Mr Pratap Kumar on the topic 'Remote Sensing and GIS Systems'.

