


TECHNICAL ACTIVITY CARRIED OUT BY CENTRES / OVERSEAS CHAPTERS

Name of Centre / Overseas Chapter:		Durgapur Local Centre	
Title of Activity:		51 st Engineers' Day Celebration : Digital Transformation: A New Industrial Revolution	
Activity under Divisional Board (delete which are not applicable):		ICC	
Date:	15/09/2018	Venue:	IEI, Durgapur Local Centre Visvesvaraya Auditorium
			
Mr A R Dasgupta delivering his Chief Guest address and sitting (l to r): Mr R K Roy, Prof (Dr) N K Roy, Dr D V Rajan & Mr M N Bandyopadhyay		Prof (Dr) N K Roy delivering his presentation	
<p>The Institution of Engineers (India), Durgapur Local Centre celebrated the 158th Birth Anniversary of Bharat Ratna Sir M. Visvesvaraya and 51st Engineers' Day on 15th September 2018 at Visvesvaraya auditorium. The dignitaries on the dais were: Mr A R Dasgupta, Executive Director (Projects), SAIL, Durgapur Steel Plant, Chief Guest, Prof (Dr) N K Roy, Professor Electrical Engineering, NIT, Durgapur, Guest of Honour & Dr D V Rajan, Superintending Engineer, DVC, DSTPS, Andal, Guest of Honour. Mr R K Roy, Chairman, Durgapur Local Centre and Mr M N Bandyopadhyay, Hony. Secretary, Durgapur Local Centre.</p> <p>The function was started with the garlanding of the bust of Bharat Ratna Sir Visvesvaraya and a documentary film on his life.</p> <p>At the outset, Mr. M N Bandyopadhyay, Honorary Secretary in his introductory address he welcomed all the dignitaries present on the dais and august gathering. He highlighted the theme 'Digital Transformation: A New Industrial Revolution' and said digitalization is essential in our day to day activities for our daily life and also it is essential for our industrial revolution 4.0.</p> <p>Mr. R K Roy, Chairman, Durgapur Local Centre welcomed the Guests and audience and he recalled the Sir M Visvesvaraya life time achievement. He also said today's scenario the theme of 51st Engineers' day is appropriate and he requested to all Engineers come forward to take necessary step to make digital India successful and to fulfill the Prime Minister's thinking i.e. Digital India.</p> <p>Addressing the gathering, the Chief Guest Mr A R Dasgupta paid his tribute to Bharat Ratna Sir M Visvesvaraya and highlighted that Sir M V was internationally popular Civil Engineer for his brilliance and his great achievement in harnessing water resources in India. He also highlighted the works of Sir M Visvesvaraya in India. He elaborately described the 51st Engineers' day theme and said our industrial revolution has started from 1.0 to present industrial revolution 4.0</p>			

and nine pillars of industrial revolution 4.0. i.e. Simulation, Additive Manufacturing, Cybersecurity, Cloud Computing, Internet of things, Big data, Autonomous Robots, System Integration & Augmented Reality.

Prof (Dr) N K Roy in his presentation he discussed the following points over the theme.

- Mapping of the Presentation
- Digital Transformation: A major Player of Industry 4.0
- Overview of Industry 4.0
- Introduction to ICT
- Growth of World Knowledge & Economy through ICT
- ICT as a Game Changer since Industry 3.0
- Introduction to IoT
- Current Status & Future Prospect of IoT
- Making Everything SMART by Digital Transformation
- What Makes Industry SMART ?
- Important Ingredients for Digital Transformation (ICT & IoT)
- Adaptation of Digital Transformation in Indian Perspective
- Status of Indian Industry in Digital Transformation
- Problems in Electrical Industry
- Data Acquisition in this Digital Era
- Status of Data Acquisition/Digitalisation in Electricity Industry
- Solution for the Electrical Industry
- Knowledge Driven Power System Economy
- Data Acquisition of Transformers in Substation
- Digitalisation of Information in SEBs

He concluded his presentation by saying we should celebrate our Engineers day with an oath of 3 Is and 3 Cs i.e. Invent, Insist, Implement, Conceive, Consult and Collaborate to make us smart.

Dr D V Rajan in his presentation touched upon the following points.

- **What was the Industrial Revolution?**
- The First Industrial Revolution
- **Why the Industrial Revolution Started in England**
- Transportation Revolution
- Macadamized Roads
- Communications Revolution
- Printing Revolution
- Second Industrial Revolution (Started by steel and oil)
- Third Industrial Revolution
- Fourth Industrial Revolution
- **INDUSTRY 4.0 Why it matters?**
- **What is digital transformation?**
- Digital Enterprise
- The Internet of Everything
- Make in Steel, make in India

After elaborate discussion he concluded his lecture by showing a video over the importance of steel in India.

After an interesting question and answer session the programme was concluded with the vote of thanks proposed by Hony. Secretary, Mr. M N Bandyopadhyay.