

TECHNICAL ACTIVITY CARRIED OUT BY CENTRES / OVERSEAS CHAPTERS

Name of Centre / Overseas Chapter:		Durgapur Local Centre	
Title of Activity:		National Technology Day	
Activity under Divisional Board (delete which are not applicable):		ETDB	
Date:	11/05/2018	Venue:	Visvesvaraya Auditorium, Durgapur Local Centre

	
Mr D Banerjee delivering his address and seen (l to r) Mr T Roy, Dr P Pal Roy, Dr A Chatterjee & Mr M N Bandyopadhyay	Dr A Chatterjee delivering her keynote presentation
<p>National Technology Day celebrated with a befitting manner in the Institution of Engineers (India), Durgapur Local Centre. The inaugural session was presided over by Mr Tilak Roy, Past Chairman of the Centre. Mr M N Bandyopadhyay, Hon. Secretary presented an introductory address. The programme was graced by Dr P Pal Roy, Former Director, CSIR-CMERI and Director, Dr B C Roy Engineering College, Durgapur as Chief Guest, Mr D Banerjee, Principal, NHIT Durgapur as Guest of Honour and Dr Anjali Chatterjee, Sr. Principal Scientist, Business Development Group, CSIR-CMERI as Guest of Honour &amp; Keynote speaker.</p> <p>Before starting the main programme a documentary film was shown on 'MOST ADVANCED Technology for Indian Military to boost Indian Military Power Technology'.</p> <p><b>At the outset, Mr M N Bandyopadhyay, Hon. Secretary of Durgapur Local Centre</b> in his introductory address he highlighted that the National Technology Day is observed every year on 11th of May in India, acting as a reminder of the anniversary of Shakti. Shakti is the Pokhran nuclear test which was held on 11th of May, 1998. The day highlights the important role of Science in our daily lives and encourages students to embrace Science as a career option. Various events are organized in different technical institutes and engineering colleges to mark the day. Competitions, quizzes, lectures, interactive sessions and presentations of various aspects of Science are managed globally. The day is crucial for engineers, planners, scientists and others who are engaged in nation building and governance.</p> <p><b>Mr Tilak Roy</b> welcomed the guests and audience. He briefed about the significance of the day and said National Technology Day is observed to memorialize the nuclear test which was held in Pokhran on 11th of May, 1998. This was a matter of pride for all the citizens of India. The day also praises the significance of Science in our day to day lives. It was on the 11th as well as the 13th of May in 1998 when India conducted five nuclear tests at Pokhran,</p>	

Rajasthan. The initial five tests were conducted on 11th May when three nuclear bombs were exploded while recording an earthquake of 5.3 Richter scale in the nearby seismic stations. Remaining of the two tests were carried out on 13<sup>th</sup> May, since then National Technology Day is celebrated in India.

**Dr P Pal Roy** in his Chief Guest address talked on national technology day and the importance of the day. He told that National Technology Day is celebrated as a symbol of quest for scientific inquiry, technological creativity and the translation of that quest in the integration of Science, Society and Industry. This day is also celebrated to honour technological innovations and their successful commercialization which takes the fruits of research to reach to people at large. It is a nice effort by IEI, Durgapur that IEI, Durgapur planned to generate awareness among the students, academia, general public, etc. about the importance of Technology Day through lectures, seminars, etc. He concluded by mentioning about the developments of Indian engineering and science and cited some case studies.

**Guest of Honour, Mr D Banerjee** in his address said that what once was known as magic, now is called "technology." Science has the power to make everything possible. Every aspect of human life has been touched by technology. Without technology, communication system, education, transportation, medical facilities and defence structure, everything will crumble.

National Technology Day is the ideal occasion to boost the citizens to explore the stellar world of technology, to step forward and take our right place as the leaders of technological innovations and scientific development in the world. Science and technology are considered amongst the most effective means to enhance growth and socio-economic development of nations. Technological development has a profound and long-term impact on income distribution, economic growth, employment, trade, environment, industrial structure and defence and security matters. The universalism of science, and the globalisation of technological production and trade, offer unprecedented opportunities for focused cooperation by scientists and engineers, and the institutions that employ them, to further progress on Sustainable development.

He concluded with the remarks of the road ahead of India & India is aggressively working towards establishing itself as a leader in industrialisation and technological development towards sustainable growth. Significant developments in the nuclear energy sector are likely as India looks to expand its nuclear capacity. Moreover, nanotechnology is expected to transform the Indian pharmaceutical industry. The agriculture sector is also likely to undergo a major revamp, with the government investing heavily for the technology-driven Green Revolution.

**Dr A Chatterjee in her keynote address** talked on the topic 'Technological Developments of CSIR-CMERI in context to Indian Technological Upgradation'. She said about all terrain mobile robots, remote surveillance, limited climbing and ditch crossing, obstacle avoidance, detection of explosives. Applications are in mine tunnel mapping, detection of hazardous gases with mine specific sensor, detect the location of trapped miners. She explained that, It is basically a hexcopter with customized aluminum frame .Autonomous underground vehicle have advantages Applications are seabed mapping, coastal surveillance, mine countermeasure oceanographic measurements during adverse weather conditions She talked about Graphene material based Super capacitor their advantages and working. She concluded with the explanation of ultra capacitor & Micro-Paper Pencil Fuel Cell (Innovative, Inexpensive, Growth Potential and Power). She talked about Austempered Ductile Iron (ADI), open cast mines and krishi sakti tractor. She discussed about solar tree and waste management and also water quality improvement.

At the end Hony. Secretary, Mr M N Bandyopadhyay offered the vote of thanks marking the end of a successful event celebrating the National Technology Day 2018.