



DRDO

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The Best Way to Predict the Future is to Invent It

In Innovation, new ideas are only a part; execution is just as important, said Shri SS Sundaram, Distinguished scientist and Chief Controller R&D, (Electronics and Low Intensity Conflict), quoting Steve Jobs, while delivering the DRDO Technology Day speech on **Electronic Systems & Sensors (Aiming for Self-sufficiency in Defence)**. Shri Sundaram emphasised the need for team work and the importance of successful linkages in development from Science to Technology to Product to Systems. Referring to India's successful nuclear tests on 11 May 1998 leading to its status of a nuclear capable state, he said it was team work between different organisations that proved a concept. It also led to a lot of consequences such as technology denials and controls, but India has emerged stronger. Giving examples of DRDO's achievements in Radars, Electronic Warfare, Communication, Night Vision and Laser technologies, he brought out how modular design approach has brought down time lines in system development; he also gave examples of DRDO's consortium approach in system development by involving Public and Private industries. He also described the emerging research areas like for Low Intensity Conflicts, Directed Energy Weapons and Space based operations.

National Technology Day signifies the glorious achievements of Indian science and technology. DRDO observes this day through Technology Day celebrations at all its laboratories/ establishments. Lectures by selected DRDO scientists, Open House Session, Quiz, etc mark the occasion. Three of these scientists were invited to give talks in today's function at Bhagavantham Auditorium, Metcalfe House. Rajesh Addanki Scientist 'D', Composite Product Development Centre, Advanced Systems Laboratory, Hyderabad spoke about the Design, Development and Testing of Conical Composite Rocket Motor Casing, used in Agni 5 missile. Starting with benefits of using composites, he covered the configuration, design and analysis, manufacturing, and testing aspects involved. Shri Pramendra Kumar Verma, Scientist 'C', Defence Electronics Applications Laboratory, Dehradun's lecture was on Electronically Steered Conformal SATCOM Antenna for Airborne Applications. He described the limitations of the presently available antennas and brought out the advantages that can be achieved with the new antenna such as low radar cross section, smaller size, etc. Emerging technologies for avalanche forecasting with better accuracy were elaborated by Shri Amreek Singh, Scientist 'E' of Snow and Avalanche Studies Establishment, Chandigarh. Thus these three lectures gave the audience a cross section of the different types of challenges faced by DRDO scientists and technologists and their ability to overcome them by finding innovative solutions.

Commendation Certificates and Titanium Medals were distributed to these scientists and to orators from Delhi based laboratories. **DRDO Technology Spectrum**, a compilation of Technology Day orations of 2012 was released by Shri RB Singh, Chairman, CEPTAM. The Technology Day function, organised by the Defence Science Forum, was attended by Directors, scientists from DRDO Headquarters and Delhi based laboratories. Dr AK Maini, Director, Laser Science and Technology Centre and Convenor, Defence Science Forum, delivered the welcome address.

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DRDO National Technology Day. Seated L-R, Dr Anil Kumar Maini, Director LASTEC & Convenor Defence Science Forum, Sh SS Sundaram, DS & CC R&D (ECS&LIC) and Chief Guest, Dr Rajeev Vij, Secretary Defence Science Forum



Sh SS Sundaram delivering lecture



Releasing Defence Technology Spectrum 2013. (Left to Right) Dr Rajeev Vij, Secretary Defence Science Forum, Shri Anil Kumar Maini Director LASTEC, Dr PK Saxena, Outstanding Scientist & Director SAG, Shri RB Singh Chairman CEPTAM, Shri Suresh Kumar Jindal, Director DESIDOC

