



DRDO

Press Release
15th June 2012
New Delhi

Dr Saraswat Inaugurates National Conference on Condition Monitoring of Engineering Systems and Structures (NCCM-2012)

India's fifth-generation aircraft being developed by DRDO will have integrated condition monitoring systems covering important systems such as avionics, structural-health, air-conditioning and pressure-regulating systems, said Dr Vijay Kumar Saraswat, SA to RM, Secretary, Dept of Defence R&D and DG, DRDO, during his inaugural address at the two-day National Conference on "Condition Monitoring of Engineering Systems and Structures" (NCCM-2012), organised jointly by the Research and Development Establishment (Engineers) [R&DE(E)], DRDO in association with Condition Monitoring Society of India [CMSI] at R&DE(E), Pune. Technologies drive doctrines and with advancing technologies, maintenance strategies have changed over the years from 'break-down' to 'preventive' to 'predictive' to 'proactive' and systems have evolved to 'self-diagnosis' and 'self-healing', by integrating nano, micro and bio-technologies, stated Dr Saraswat. He said that the development of sensors, signal processing techniques, decision support systems and software are the main challenges in Condition-monitoring and Structural-health-monitoring. Dr Saraswat also released the conference souvenir and proceedings.

Dr V BhujangaRao, Chief Controller R&D (HR), DRDO and founder-president of Condition Monitoring Society of India delivered the keynote

address. He elaborated on the importance of condition monitoring, failure mechanisms and causes and maintenance-management strategies. He also spoke about the future involving Cloud-based condition monitoring. He stressed that educational institutes should include condition-monitoring in higher education.

Earlier, Dr S Guruprasad, Director R&DE(E) welcomed the dignitaries and conference participants from industry, academia and various organisations. He mentioned about the pioneering work done by R&DE(E) even in the 1980s, where electric gensets working in Antarctica were remotely maintained from Pune. He also mentioned about the recent achievement of developing a 'smart' composite bridge with structural-health-monitoring.

Shri KVVSS Murthy, Vice-president of Condition Monitoring Society of India briefed the august gathering about the Society and its activities.

More than thirty papers will be presented in the two-day Conference which focuses on topics related to Condition-Monitoring and Structural-Health-Monitoring, such as Vibration monitoring, IR Thermography, Expert Systems and Neural networks in Condition-Monitoring, Damage-identification algorithms, modelling and simulation, etc.

