

Future robots to be muscle mimicking & self-healing: DRDO

Tessy Thomas, DRDO's Aeronautical Systems (Aero) Director General said these robots would also be able to perform a wide range of motions, adapt to dynamic environment and work cordially with the human environment

Chennai: Robots of the future would no longer be metallic objects, but made of 'soft materials' which are muscle mimicking, self-healing and with hydraulically amplified actuators, a senior DRDO official said here Wednesday.

Tessy Thomas, DRDO's Aeronautical Systems (Aero) Director General said these robots would also be able to perform a wide range of motions, adapt to dynamic environment and work cordially with the human environment.

With soft robots already developed, Thomas, known as the 'Missile Woman' of India, said robots with muscle mimicking, self-healing and hydraulically amplified actuators were being developed.

"The next generation of robots won't be metallic machines, but instead made of soft materials with a wide range of motions that react to applied electricity," she said on the sidelines of a four-day conference on 'advances in robotics' at IIT-Madras, which got underway here yesterday.

Robotics has become solutions to various challenges, right from disaster management to military safety, the DG said, adding that the involvement of number of start ups in the country with industry was the need of the hour.

"With advancements in robotics, AI, computer aided manufacturing, 3D printing and Internet of Things (IoT), the industry is estimated have Rs two lakh crore business by 2025," Thomas said.

DRDO, she said, has three labs specifically working on robotic and Artificial Intelligence (AI).

The five-day event '4th International Conference of the Robotics Society' at IIT-Madras aims at fostering industry-academia interactions.

<https://economictimes.indiatimes.com/news/defence/future-robots-to-be-muscle-mimicking-self-healing-drdo/articleshow/70058015.cms>



In Leh, Army holds continuing medical education (CME) programme

Leh: The High Altitude Medical Research Centre (HAMRC) and 153 GH conducted the 20th meeting of Research Advisory Committee (RAC) and a Continuing Medical Education (CME) program on "Health Issues at High Altitude Areas" at Leh on Wednesday, army said.

Army said that senior officers from the Indian Army, Air Force and Navy and distinguished scientists and doctors from DRDO attended the event.

"The galaxy of senior officers included Lt Gen Bipin Puri, the Director General of Armed Forces Medical Services (DGAFMS), Air Marshal M. S. Butola, Director General Hospital Services (Armed

Forces), Lt Gen Y. K. Joshi, GOC Fire and Fury Corps, Dr A.K. Singh, Director General of Life Sciences (DGLS, DRDO), Maj Gen Arvind Kapoor, Maj Gen Rakesh Kumar, Surg Radm M. S. Prakash and Maj Gen Sharad Bhatnagar,” an army statement said.

Army said that the day witnessed a unique conclave of officers not only from the Armed Forces but also from premier research institutions like DRDO and renowned doctors from Leh-Ladakh.

“It proved to be a novel platform for all stakeholders to come together and undertake concerted efforts towards the promotion of health and prevention of diseases among soldiers deployed in high altitude areas.

Welcome the address was given by Maj Gen Madhuri Kanitkar, MG Med Northern Command. The CME sessions were aimed at updating the knowledge base on high altitude related health issues and their management,” army said.

Army said that the plenary speakers were senior doctors from the Army Medical Corps and senior scientists from DRDO, with unmatched experience of having studied and worked tirelessly on terrain-specific disease conditions.

“Diseases due to hypoxia and cold environmental conditions were extensively deliberated upon.

Presence of Padmashri Dr Tsering Norboo, the Internal Medicine specialist who revolutionized public health, added intellectual splendour to the event,” they said.

The CME witnessed the sharing of ideas across distinguished minds and in the backdrop of the RAC meeting of the HAMRC, paved the way for new openings in medical research, the army said.

Army further said that this has been a significant milestone and a remarkably promising endeavour in advancing research work for the health and medical services for our soldiers.

<http://brighterkashmir.com/in-leh-army-holds-continuing-medical-education-cme-programme>