



# DRDO

**Curtain Raiser**

Wednesday 29<sup>th</sup> May 2013

DRDO Bhawan, New Delhi

## **DRDO AWARDS FUNCTION 2013 & WORKSHOP ON AUTONOMOUS VEHICLES**

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DRDO AWARDS for the year 2012 for outstanding contribution in various areas of technology will be given away by the Hon'ble Defence Minister, Shri AK Antony, in the august presence of Hon'ble Raksha Rajya Mantri Shri Jitendra Singh and a galaxy of dignitaries at 1500 Hrs on 29th May 2013 in a brief ceremony to be held at Kothari Auditorium, DRDO Bhawan. An exhibition of DRDO products related to these Awards has been set up on this occasion.

A workshop on Autonomous Vehicles will also be held on the same day. To be inaugurated by Dr Vijay Kumar Saraswat, Scientific Adviser to Raksha Mantri, Secretary Deptt. of Defence R&D and DG DRDO earlier during the day, the workshop will focus on technologies and challenges associated with the development of autonomous vehicles for the three realms of 'Air', 'Land surface' and 'Underwater'.

The DRDO awards in 14 categories are being given to honour 43 individual Scientists/Teams of DRDO, partners of DRDO from other sectors for their outstanding contributions in furthering DRDO's efforts in achieving self reliance.

DRDO Life Time Achievement Award is being conferred on Dr. Eswara Bhagiratharao for his distinguished contributions in the areas of Electronics, Communication, and Electronic Warfare (EW) systems and his exceptional contributions in multiple array of technologies and management initiatives.

Technology Leadership Awards: In recognition of their outstanding contributions and leadership qualities, the Technology Leadership Awards for the year 2012 are being awarded to three Scientists namely:

1. Shri SS Sundaram, Distinguished Scientist and Chief Controller Research & Development, DRDO HQrs, for providing outstanding leadership to various scientific teams in realizing products in the area of electronic warfare and electro-optical instrumentation.
2. Dr KD Nayak, Distinguished Scientist & Chief Controller Research & Development, DRDO HQrs, for his effective leadership to the development of microelectronics, information technology and cyber systems. He was instrumental in setting up of DRDO's first High Performance Computing Centre (HPC) and initiated the development of a number of ASICs/MEMS for strategic and tactical requirements and up-gradation of the MMIC facility.
3. Dr VG Sekaran, Distinguished Scientist & Director, Advanced Systems Laboratory (ASL), Hyderabad for his outstanding contributions to the design and establishment of re-entry technology for long range ballistic missile systems and design, development and delivery of strategic missile systems.

**SCIENTIST OF THE YEAR AWARDS** have been conferred to the following FIFTEEN Scientists:

Dr. Samir Venkatpati Kamat, Scientist 'G', Defence Metallurgical Research Laboratory (DMRL), Hyderabad; Smt. N Sarada, Scientist 'E', Defence Electronics Research Laboratory (DLRL), Hyderabad; Sh. Thomas Antony, Scientist 'F', Naval Physical & Oceanographic Laboratory (NPOL), Kochi; Dr. K Radhakrishna, Scientist 'G', Defence Food Research Laboratory (DFRL), Mysore; Sh. VV Parlikar, Scientist 'G', Research & Development Establishment (Engineers) (R&DE(E)), Pune; Sh. Peravali Trimurthulu, Scientist 'F', Naval Science & Technological Laboratory (NSTL), Visakhapatnam; Dr. S Ganesan, Scientist 'G', Combat Vehicles Research & Development Establishment (CVRDE), Chennai; Sh. RP Dixit, Scientist 'G', Defence Electronics Application Laboratory (DEAL), Dehradun; Sh. Sanjay Pal,

Scientist 'F', Recruitment & Assessment Centre (RAC), Delhi; Dr. Saibal Kumar Pal, Scientist 'F', Scientific Analysis Group (SAG), Delhi; Dr. V Kala, Scientist 'G', Aeronautical Development Establishment (ADE), Bengaluru; Dr. Rituraj Kumar, Scientist 'F', Centre for Artificial Intelligence & Robotics (CAIR), Bengaluru; Dr. TM Kotresh, Scientist 'F', Defence Bioengineering & Electromedical Laboratory (DEBEL), Bengaluru; Sh. Kilari Sreenivasulu, Scientist 'F', Electronics & Radar Development Establishment (LRDE), Bengaluru and Dr. Debasis Chakraborty, Scientist 'G', Defence Research & Development Laboratory (DRDL), Hyderabad.

**ACADEMY EXCELLENCE AWARDS** are given to members from academia associated with DRDO for research in emerging areas. Such directed research helps DRDO in capability building and has contributed to DRDO's efforts in overcoming the challenges of developing world class technologies in spite of technology denials and control regimes. The two Academy Excellence Awards for the year 2012 are being conferred on Prof. Tapan Kumar Ghoshal, Professor of Electrical Engineering, Jadavpur University, Kolkata for evolving processes for independent verification and validation of control laws for the Indian Light Combat Aircraft (LCA) and his contributions to the field of control and guidance of Indian missiles, combat aircrafts and Prof. Rajaram Nagappa, Professor, National Institute of Advanced Studies (NIAS), Bengaluru for his outstanding contributions to the area of aeronautical research, and heavy lift solid propulsion systems.

**BEST TECHNO MANAGERIAL SERVICES AWARD** is being given to Mrs. Nabanita R Krishnan, Scientist 'G' and Director, Dte. Of Management Information System and Technologies (DMIST), DRDO HQrs and her team for making significant contributions towards bringing in next generation IT-enabled products and services for effective project monitoring and interaction through video conferencing, unified communication system and project MIS on an upgraded intranet with layered security.

**POPULAR SCIENCE COMMUNICATION AWARDS** are being given to:

1. Sh. Ravi Kumar Gupta, Scientist 'G' and Director, Dte. Of Public Interface, DRDO HQrs and his team for making outstanding contributions through excellent media coverage of DRDO events, media interaction with top scientists, films on DRDO, press release of landmark event, articles in reputed magazines, interaction with academia, exhibitions etc. resulting in enhanced visibility of DRDO.
2. Sh. Sunil Sharma, Scientist 'F', Director, Dte. Of Rajbhasha and Director and Dte of Strategic Systems (SS), DRDO HQrs for making outstanding contributions in implementing innovative methods for propagation of Rajbhasha in DRDO Labs/Estts, HQ and work centres of DRDO and in smooth functioning of strategic programmes of DRDO.

**Silicon Trophy** for the Best Systems Laboratory of DRDO is being awarded to Research & development Establishment (Engineers) (R&DE(E), Pune for outstanding contributions towards developing and delivering state-of-the-art systems and the areas of Combat Engineering, Field Defence, NBC Collective Protection, Weapon Support Systems, Composites and Robotics.

**TITANIUM TROPHY** for the Best Science Laboratory of DRDO is being awarded to Centre for Fire Explosive & Environment Safety (CFEES), Delhi which has achieved high standards in safety management through innovative solutions and inputs to Ministry of Defence users through concerted R&D efforts.

DRDO awards for **PATH BREAKING RESEARCH AND OUTSTANDING TECHNOLOGY** for the year 2012 are being conferred upon:

1. Dr. S Christopher, Distinguished Scientist and Director, Centre for Air Borne Systems (CABS), Bengaluru and his team for their significant contributions towards research and development of critical technologies associated with the AEW&C systems and such future systems; these include the first indigenous active electronic scanning array for airborne radar and systems such as modern secondary surveillance radar, mission computer and tactical algorithms.
2. Dr. Dev Raj Saroha, Scientist 'G', Terminal Ballistic Research Laboratory (TBRL), Chandigarh, and his team for their outstanding contributions towards development of explosively formed projectile (EFP) technology for design of multi-EFP warhead.

**AGNI AWARD FOR EXCELLENCE IN SELF-RELIANCE** is being conferred to the following Scientists and their teams for their excellent contributions towards building self-reliance in defence technologies:

1. Dr. SC Sati, Director, Aerial Delivery Research & Development Establishment (ADRDE), Agra.
2. Dr. Ajay Kumar, Scientist 'F', Instruments Research & Development Establishment (IRDE), Dehradun.
3. Sh. VS Chandrashekar, Outstanding Scientist, Aeronautical Development Establishment (ADE), Bengaluru.
4. Cmde Ranjit Singh, Defence Electronics Research Laboratory (DLRL), Hyderabad.
5. Sh. CH Swamulu, Scientist 'F', Centre for Artificial Intelligence and Robotics (CAIR), Bengaluru.
6. Sh. BHVS Narayana Murthy, Scientist 'G', Research Centre Imarat (RCI), Hyderabad.
7. Air Marshal (Retd) BN Gokhale, PVSM, AVSM, VM, former VCAS.

**DRDO AWARD FOR PERFORMANCE EXCELLENCE** are being conferred on:

1. Dr. VG Sekaran, Distinguished Scientist & Director, Advanced Systems Laboratory (ASL), Hyderabad, and his team who have made excellent contributions towards design and development of indigenous long range strategic missile system, Agni 5. The team has developed several new technology elements to achieve long range capability and have introduced design concepts leading to futuristic system design with higher payload capability. Their efforts led to perfect success of its maiden flight on 19th April 2012.
2. Sh. Anil M Datar, Outstanding Scientist and Director, Armament Research & Development Establishment (ARDE), Pune, and his team who have successfully designed, developed and led to production indigenous and state-of-the-art Pinaka Multi Barrel Rocket Launching System.

**SPECIAL AWARD FOR STRATEGIC CONTRIBUTIONS** is being conferred on:

1. Dr. Manjit Singh, Scientist 'G' and Director, Terminal Ballistic Research Laboratory (TBRL), Chandigarh, and his team who have indigenously developed a high performance plastic bonded explosive, for strategic warheads with enhanced performance parameters, mechanical properties, thermal stability, shelf-life and reduced sensitivity to replace conventional TNT-based melt-cast explosives.
2. Shri Amit Sharma Scientist 'D' DRDO Hq. and his team for outstanding contributions towards development of advanced cyber solutions, mitigation technologies and malware analysis.

**Defence Technology Absorption Award** is given to DRDO's industrial partners for their support in transformation of technologies developed by DRDO into products/systems/processes for Armed forces. The the award is being given to

1. M/s Thermax, Pune for successfully absorbing Phosphoric acid fuel cell stack production technology developed by NMRL in a record short span of time.
2. M/s Keltron Controls, Aroor, Kerala for developing flexible towed sensor arrays by absorption of requisite technology from NPOL.

**DEFENCE TECHNOLOGY SPIN-OFF AWARD** is being awarded to Snow & Avalanche Study Establishment (SASE), Chandigarh for developing technology for the avalanche control Structures to mitigate the avalanche threat on NH1A Banihal Tunnel, J&K.

**BEST INNOVATION/FUTURISTIC DEVELOPMENT AWARD** for significant contributions is being awarded to Sh. Amitava Das, Scientist 'G', Naval Science & Technological Laboratory (NSTL), Visakhapatnam, and his team accomplishing the challenging task of indigenous development of a 60 kW BLDC motor and its controller for propulsion of advanced lightweight torpedo (ALWT).

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