

## Small satellites bring in new revolution: DRDO Chairman Satheesh Reddy

*Dr. Reddy described small satellites as a disruptive technology for space industries*

*By Ch Sushil Rao*

Hyderabad: DRDO Chairman G Satheesh Reddy on Thursday said small satellites would bring in a new revolution in the world. "Network of space borne sensors will lead us towards the Internet of Satellites in future. Small satellite driven missions have changed our approach towards the Earth Observation and the Space Wide Web will pave the way for Internet of Space Things (IoSTs)," he said at a conference in the city.

"We need to explore the technical issues, development considerations, emerging opportunities and address quality, reliability issues and if we are not conscious, small satellites revolution will only remain as single shot opportunities and add up to space debris as well," he said.

Society for Small Satellites and Systems (SSSS) and the Sensors Research Society (SRS) are jointly organizing a 3-day International Conference on Small Satellites and Systems (ICSS), in association with Research Centre Imarat (RCI) from Feb 7-9. More than 30 International experts and 700 delegates from various R&D organizations academic institutions, industries are participating in the conference.



The inaugural event on Thursday was attended by Satish Chandra Jha, Chairman, National Technical Research Organisation (NTRO), G. Satheesh Reddy, Secretary, Department of Defence R&D and Chairman, DRDO, PS Goel, ISRO Honorary Professor, Avinash Chander, President Sensors Research Society, Koteshwara Rao, President, Society for Small Satellites and Systems, MSR Prasad, DG, Missiles and Strategic Systems, BHVS Narayana Murthy, Director, RCI among others.

Speaking on the occasion, Dr Satheesh Reddy said advancements in technologies like propulsion, electronics, MEMS, structures, and payloads are enabling a significant reduction in the size, cost, and weight of satellites. "Small Satellites is a disruptive technology for space industries. The modest facilities needed to design and build small satellites boosted innovative startups," he said.

For significant contributions to Indian defence and aerospace, Dr Satheesh Reddy has conferred the honorary fellowship of Sensors Research Society.

Satish Chandra Jha, chairman, National Technical Research Organisation (NTRO) said small satellites are playing an important role in space applications. They are faster to build, cost-effective and better packaged due to use of latest technologies, he said.

"Small satellite platforms can be adapted for optical, IR, thermal and radar imaging (micro-SAR) remote sensing with good resolution. ELINT platforms in triplets can also be built around small satellite buses and an appropriate constellation of ELINT and imaging satellites (inclined orbits) can provide 24x7 surveillance of dynamic targets," he explained.

RCI director BHVS Narayana Murthy said the scientific capabilities in universities and industries need to be integrated.

<https://timesofindia.indiatimes.com/india/small-satellites-bring-in-new-revolution-drdo-chairman-satheesh-reddy/articleshow/67887687.cms>

## Small satellites will bring in revolution: DRDO Chairman

*Dr. Reddy described small satellites as a disruptive technology for space industries*

Hyderabad: Advancements in technologies like propulsion, electronics, structures and payloads were enabling significant reduction in the size, cost, and weight of satellites, said G Satheesh Reddy, Secretary, Department of Defence R&D, and DRDO Chairman.

Speaking at the inaugural of a three-day International Conference on Small Satellites and Systems (ICSS) organised by the Society for Small Satellites and Systems (SSSS) in association with the Sensors Research Society (SRS) and Research Centre Imarat (RCI) here on Thursday, Dr. Reddy described small satellites as a disruptive technology for space industries.

“The modest facilities needed to design and build small satellites boosted innovative startups. Small satellites will bring in a new revolution in the world and network of space-borne sensors will lead us towards Internet of Satellites in future,” he said. Small satellite driven missions have changed the approach towards Earth Observation and the Space Wide Web will pave the way for Internet of Space Things (IoSTs), he pointed out.

“We need to explore technical issues, development considerations, emerging opportunities and address quality, reliability issues and if we are not conscious, small satellites revolution will only remain as single shot opportunities and add up to space debris as well,” Dr. Reddy added.

In his address, Satish Chandra Jha, chairman, National Technical Research Organisation (NTRO), said the small satellites were playing an important role in space applications. “They are faster to build, cost effective and better packaged due to use of latest technologies,” he said.

For significant contributions to Indian Defence and Aerospace, Dr Reddy was conferred with the Honorary Fellowship of Sensors Research Society at the event which was also attended by PS Goel, ISRO Honorary Professor, Avinash Chander, president, Sensors Research Society, Koteswara Rao, president, Society for Small Satellites and Systems, MSR Prasad, director general, Missiles and Strategic Systems, BHVS Narayana Murthy, director, RCI and others, a press release said.

Dr PS Goel and Dr Raja Ramanna chair professor, NIAS and former Secretary, Ministry of Earth Sciences, were conferred with the Lifetime Achievement Awards, the release added.

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