

# Prof. S. C. Sahasrabudhe Memorial Lecture



*“A role-model in engineering education,  
an inspiring teacher, a beloved mentor,  
a selfless IEEE volunteer”*

**Prof. Sudhakar C. Sahasrabudhe**  
**(5 July 1942 – 28 December 2019)**

**Speaker: Shri Tapan Misra**  
**Founding Director, SISIR Radar**  
**Ex-Director, SAC-ISRO**  
**Ex-Director, PRL-ISRO**

*Topic: Made in India Synthetic  
Aperture Radar (SAR) Technology*



*a n e v e n t o f*  
**IEEE Gujarat  
Section**

**Venue:** Auditorium A-101, Nirma University, Ahmedabad

**Schedule:** 7<sup>th</sup> Dec'24, 10 a.m. (to end with Thanksgiving & Lunch)

**Registration:** Free, but mandatory by 5<sup>th</sup> Dec'24 via [bit.ly/ieeegs\\_scs](https://bit.ly/ieeegs_scs)

**RSVP:** [priyeshchauhan@iitram.ac.in](mailto:priyeshchauhan@iitram.ac.in) :: Technical Activity Chair, IEEE GS

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# Bio of Shri Tapan Misra

- Mr. Tapan Misra started his career in Space Applications Centre, ISRO in 1984 and since then played a pivotal role in growth of Microwave Remote Sensing payloads and allied technologies in SAC and in India.
- He is widely known for the design and development of C-band Synthetic Aperture Radar (SAR) of the RISAT-1 in 2012. He steered the development of RISAT-2 series of high-resolution X-band SAR systems.
- He conceptualized and led development of highly miniaturized Dual Frequency (L and S band) SAR (DFSAR) for Chandrayaan 2 orbiter (2019).
- He was the principal designer of Ka band radio altimeter which enabled smooth landing of RLV and Chandrayaan 3 lander.
- He is the principal architect of the novel sweepSAR of NISAR (NASA-ISRO SAR), likely to be launched in early 2025.
- He was a key contributor for system engineering of Multi-frequency Scanning Microwave Radiometer (MSMR) payload for OceanSat-1 during 1995-1999 and Scanning Scatterometer of OceanSat-2 in 2009.
- He was appointed as Director of Space Applications Centre (SAC) in Feb 2015 and had additional charge of Director, Physical Research Laboratory, Ahmedabad from Jun'16-Feb'17.
- He also headed the Office of Innovations Management, ISRO, Bangalore.
- Tapan Misra was appointed as a Senior Adviser to Chairman of ISRO in July 2018.
- He superannuated from ISRO in January 2021.
- Presently he is the Founding Director and Consultant Chief Scientist of a startup named SISIR Radar Pvt Ltd, based out of Kolkata. Under his leadership, SISIR Radar has emerged as one of the very few key Deep Tech startups in India, specializing in developing miniature SAR System, ultra wide band GPR systems and innovative Spaceborne SAR.
- He received Vikram Sarabhai Research Award in 2004 and ISRO Merit award in 2008 for his contributions to the development of SAR technology.
- He was elected Fellow of Indian National Academy of Engineering in 2007 and Corresponding Member of International Academy of Astronautics in 2008. He is also elected Fellow of IETE and ISRS. He was awarded DSc (Hon.) in 2016 and Distinguished Alumnus award in 2017 by his Alma Mater, Jadavpur University.
- He chaired CGMS 2018 (Coordination Group for Meteorological Satellites) in Bangalore, represented India as Principal to CEOS (Committee on Earth Observation Satellites) in Paris in 2017 and participated as team member of Indo-US Strategic Dialogue on Space Cooperation in Washington DC in 2016 and 2018.
- He also taught at IIT Kharagpur and IIT Jodhpur as Adjunct Professor.
- He holds eight granted patents. He has five copyrights and more than fifty five papers to his credit.