

अंतरिक्ष उपयोग केंद्र (सैक), अहमदाबाद
Space Applications Centre (SAC), Ahmedabad



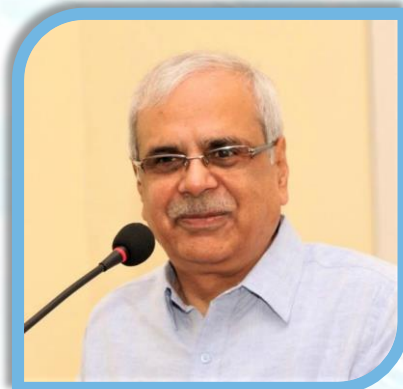
Organises

*A popular talk
on*

*Water security of Himalayan region
under warm climate*

by

Dr. Anil V. Kulkarni



**Distinguished Scientist, Divecha Centre for Climate Change,
Centre for Atmospheric & Oceanic Sciences,
Indian Institute of Science, Bangalore**

As a part of Azadi Ka Amrit Mahotsav celebration



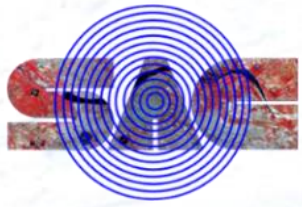
All are cordially invited



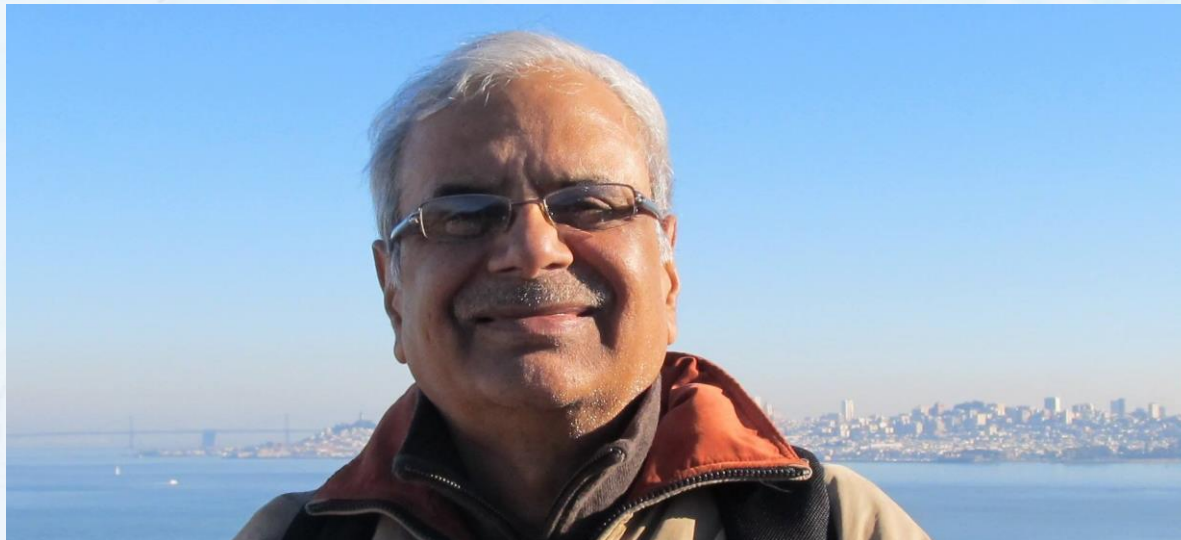
**Date: 04 August, 2022
Time: 11:00 hrs to 12:00 hrs.**

Venue: Vikram Hall

Please occupy your seat 5 min before.



Brief Scientific Contribution: Dr Anil V. Kulkarni



Dr Anil Vishnupant Kulkarni is a distinguished scientist at the Divecha Centre for Climate Change, Indian Institute of Science, Bangalore. He acquired a post-graduation degree in Applied Geology from the University of Roorkee, now known as the Indian Institute of Technology-Roorkee. In 1987, he was awarded a Commonwealth Fellowship at McGill University, Montreal, Canada. He obtained a Master's degree in Geography, followed by a doctorate in Geology, from Shivaji University, Kolhapur, Maharashtra.

Dr Kulkarni has developed many remote sensing-based methods and models to understand the Himalayan cryosphere. The methods are widely used to map snow and glaciers. The models are used to assess glacier mass balance, stream runoff, and the influence of climate change. Moreover, a model based on velocity, slope and flow law was developed to estimate the distribution of ice-thickness. The technique is used to provide a better estimate of glacier stored water. A combination of mass balance and climate models is used to understand glacial mass loss under different emission scenarios, indicating the threat to water resources under high emission scenarios.

He published around 120 papers in prestigious international and national journals. These contributions made Dr Kulkarni one of the leading authorities and identified him in the top 2% of researchers worldwide in Geological and Geomatics Engineering. Dr Kulkarni was conferred with the prestigious National award in Polar Science and cryosphere in 2014 and the National Geosciences award in 2009 to recognise his outstanding contribution to Applied Geosciences. He also received a Team excellence award in 2008 from the Indian Space Research Organisation.