

## Brief CV of Prof. (Dr.) Panuganti C.S. Devara



**Prof. (Dr.) Panuganti C.S. Devara** is currently Director and Head of the Centres of Excellence in Ocean-Atmospheric Science and Technology (ACOAST), Environmental Science and Health (ACESH) & Air Pollution Control (ACAPC) at Amity University Haryana (AUH), Gurugram, India. He obtained his Ph.D. Degree in Physics for the thesis entitled “**Study of Upper Atmospheric Winds and Radio Meteors Using Meteor Radar Technique**”, which is *First of its Kind in East Asia*. He served the Indian Institute of Tropical Meteorology (IITM), Pune, India, at various capacities, from December 1980 to February 2014. During this tenure, he developed a spectrum of Laser Radar (LIDAR) systems and Radiometers for probing the Atmosphere and Oceans. He also organized several bilateral (Indo-US, Indo-USSR, Indo-Bulgaria, INDOEX, LITE, CALIPSO, Megha-Tropics, StratoClim etc.) and National (ISRO-GBP, BoBMEX, ARMEX, CTCZ, CREM, IRS-P3, P4, P4, P6, OCEANSAT, CAIPEEX etc.) Collaborative Research Projects.

Prof. Devara joined the Amity University Haryana (AUH), Gurugram in March 2014 and implemented a new initiative of Amity Centre for Ocean-Atmospheric Science and Technology (Amity COAST) and established an advanced Climate Research Laboratory (CRL). In October 2015, another new initiative of Amity Centre for Environmental Science and Health (ACESH) with a focus on investigating pollution effects on human health has been established. For this purpose, a state-of-the-art Air Quality Monitoring Station (AQMS) has been installed in collaboration with IITM, Pune. This versatile system yields 24x7 high-resolution synchronous data composed of 22 parameters ( $PM_{10}$ ,  $PM_{2.5}$ ,  $PM_{10}$ , CO, CO<sub>2</sub>, NO<sub>x</sub>, NO<sub>2</sub>, NO, NH<sub>3</sub>, SO<sub>2</sub>, O<sub>3</sub>, VOCs, and meteorological parameters). The collocated complimentary techniques such as NASA-AERONET, Polar Nephelometer, and next-generation Aethalometer have been established in 2017 for regional air quality, health and aerosol-cloud-climate interaction studies and modeling.

Prof. Devara is a Fellow of the Royal Meteorological Society (RMetS), UK; President of the Indian Aerosol Science and Technology Association (IASTA) during 2008-2023, India;

and Fellow of the Asian Aerosol Research Assembly (AARA), Taiwan; Fellow of the Institution of Electronics and Telecommunication Engineers (IETE), India; Executive Member, International Commission of Clouds and Precipitation (ICCP); Member, WCRP-SPARC Scientific Steering Group (SSG); SKYNET Project, Chiba University, Japan.

Prof. Devara has rich experience of more than **45** years in the Active and Passive Remote Sensing of the Atmosphere, Oceans, Environmental Health, Weather and Climate. His areas of research also include Pollution Monitoring, Diagnosis and Mitigation. He is an Expert Reviewer of IPCC, UNEP, NSF, EU Funding Agencies, Indian Space Research Organization (ISRO, GoI), Department of Science and Technology (DST, GoI), Ministry of Earth Sciences (MoES, GoI), Ministry of Environment and Forest & Climate Change (MoEF&CC, GoI) and many leading Science National / International Journals. He has published, so far, more than **625** Research Papers in Refereed Journals, Proceedings, Textbook Chapters and Scientific Reports. He guided **15** students for Ph.D. and more than **60** students for M.Sc./M.Tech. degrees till date.

Prof. Devara received several awards/honors including the *Young Scientist Award* (1980); J. Das Gupta Award (1999); Bharat Jyoti Award (2010); Best Citizens of India Award (2011); 6<sup>th</sup> (1993); 7<sup>th</sup> (1994) and 25<sup>th</sup> (2012) *Silver Jubilee Awards* and 1<sup>st</sup> *Golden Jubilee Award* (2012) of IITM, Pune; *Eminent Scientist Award* (January 2020), *Lifetime Achievement Award* (December 2021) and *Best Research Award* (February 2021), *Asia's Top-50 Scientist Award* (November 2022), *Kalam Research Award* (May 2023), *World Class Scientist Award* (2024), *Award for Excellence in Research* (2024); and Fellow and Member of several Scientific and Professional Bodies in India and Abroad for his original contributions in the field of Physics, Chemistry and Dynamics.

Prof. Devara delivered several Invited / Lead talks on National / International Platforms. He organized several National / International Scientific Conferences / Symposia / Workshops / Brainstorming Sessions and Field Observation Campaigns in India and abroad. Presently, he is PI for six on-going Consortium Projects, costing about Rs. 15 Crores. He is currently involved in (i) a long-term (2022-2032) collaborative research project with NASA-AERONET, USA for Sun-Sky-Moon-Polarimetric Multi-spectral Radiometer (First of its kind in India) characterization of day-night aerosols & precursor gases, and (ii) a joint research collaboration between AUH, IIT(D) and Emory University, USA of CAL-VAL program (Second of its kind in India) of upcoming MAIA-AMOD satellite for multi-dimensional mapping of air pollution and health parameters. Prof. Devara is also Coordinator and closely associated with the Research Clusters of (i) Global Warming and Climate Change (GWCC) (now Earth, Environment and Climate (EEC), (ii) Environmental Health and Pollution Control (EHPC) and (iii) Space Science and Technology (SS&T) at Amity Universe.