



Dr. Sulochana Gadgil

**2nd Talk of
IMS – IMD Lecture Series**

**Live Talk
16th November 2021
0300-0430 PM**

To commemorate the 75th anniversary of Independence of India, this year the country is celebrating **Azadi Ka Amrit Mahotsav**, which will continue till Aug 2023. Indian Meteorological Society (IMS) and India Meteorological Department (IMD) are jointly celebrating this Mahotsav by organising a series of popular lectures on contemporary topics.

ABOUT THE SPEAKER : **Dr. Sulochana Gadgil** was trained at Harvard University, with a PhD. in Applied Mathematics, a post-doctoral fellow at MIT, and after two years as a CSIR pool officer as IITM, joined the Indian Institute of Science in 1973. She has made significant contributions to our understanding of the Indian monsoon and its variability, its links with atmospheric convection over tropical oceans and the relationship of such convection with the sea surface temperature. She played a key role in the establishment and nurturing of the Centre for Atmospheric and Oceanic Sciences at the Indian Institute of Science and spearheaded the efforts to formulate the Indian Climate Research Program (ICRP). She has served on many committees in atmospheric sciences and is a recipient of several awards including Lifetime excellence award in Earth Sciences of 2016 from the Ministry of Earth Science.

ABOUT THE TALK : **Monsoon Science: Achievements and Challenges**

The success story of the last two decades has been the unravelling of the physics of El Nino, and its successful prediction with the development of realistic coupled atmosphere-ocean models. The next frontier is clearly the monsoon. I shall first talk about the major advances made in the last few decades in our understanding of the monsoon and its variability. The basic system responsible for the monsoon has been identified and nature of the intra-seasonal and interannual monsoon variability and of the links with the convection over the Pacific and Indian Oceans elucidated. I believe that to achieve better prediction of monsoon variability, a deeper understanding of the physics is most important. Considering the progress made in predictions on different time-scales, the challenges that need to be addressed will be considered. The nature of the impact of the variability of the monsoon on our food-grain production and GDP will be discussed. Finally, application of information and prediction of monsoon variability for enhancement of the critical resource of agriculture, i.e. the so called applications, which also require a high level of interdisciplinary scientific research in collaboration with the end users, will be considered and challenges that remain in successful application identified.

Link : <https://youtu.be/6QVhhVuf35g>

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