

Golden Jubilee Foundation Day Lecture, IITM, Pune.

17 November 2011, Time : 12.00 – 13.00 hrs

At

Dr. A.P.J. Abdul Kalam Auditorium, Pashan, Pune-411021.



CHASING THE CUMULUS CLOUD
in the Lab, on the Computer, from a Satellite

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Cumulus parameterization is a major issue in tropical circulations in general, and the Indian monsoons in particular. Clouds are also the source of greatest uncertainty in climate change science. Recent developments in laboratory as well as numerical simulations of cloud flows yield new insights into a problem that is at once of both enormous societal importance and fundamental scientific interest. The launch of the Indo-French satellite Megha-Tropiques on 12 October this year promises to yield unique data sets on tropical convection. The lecture will present a personal perspective on the exciting prospects that I believe are opening up in the scientific pursuit of understanding cloud-scale dynamics, particulate microphysics and compute-intensive cloud modelling.
