MCRN Newsletter

April 29, 2016 - Issue 17

MCRN Colloquium Webinar

<u>Monday, May 2, 2016, 10am EDT</u>: **Amit Apte** (International Centre for Theoretical Sciences (ICTS) of the Tata Institute of Fundamental Research, India)

Simple models of the Indian summer monsoon

[Webinar Link](#)

Abstract: The Indian summer monsoon is a dramatic multiscale, multiphysics event that has a profound impact on the food security of more than a billion people. Predictions for the monsoon rainfall using present-day general circulation models are often wide of the mark, with serious consequences for the economy of the countries of the Indian subcontinent. An understanding of the basic dynamical features of the monsoon system is an important open problem.

In this talk, I will try to review "my" current understanding (to be distinguished from "our" current understanding) of the salient features of the dynamics of the monsoon. I will also present some of the past attempts at modelling some features of the monsoon using simple models. In particular, I will discuss the PDE models related to the work of Gill ([doi:10.1002/qj.49710644905](#)) and ODE models related to the work of Zickfeld et al. ([doi:10.1029/2005GL022771](#)). This is an ongoing work in collaboration with [Raj Saha](#), Rama Govindarajan, Vishal Vasan, SajiniAnand, Vijay Prakash.

This will be the last MCRN Colloquium webinar of the 2015-2016 academic year.

Upcoming deadlines

[Summer school and Workshop on Critical Transitions](#)
April 30: Abstracts and school registration

[Fourth Annual CliMathNet Conference](#)
April 30: Oral presentation abstracts
May 4: Early-bird registration
May 31: Poster abstracts

News

Member: [Alanna Hoyer-Leitzel to join mathematics faculty at Mount Holyoke College](#)

Solicitations: [3rd International Workshop Nonlinear Processes in Oceanic and Atmospheric Flows](#)

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