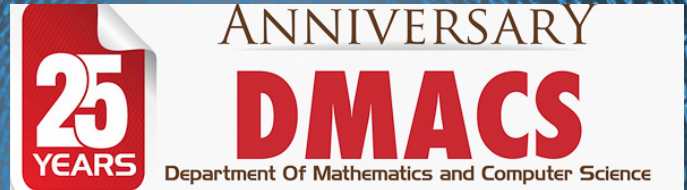




ASU Simon A. Levin
Mathematical, Computational
and Modeling Sciences Center
Arizona State University

International Workshop on Modeling Dynamics, Statistical Inference and Prediction of Infectious diseases



Learn the science of **Mathematical modeling of disease transmission.**

mathematical modeling

ecology & epidemiology

agent based modeling

statistical inference

uncertainty quantification methods

stochastic modeling

data analytics

and much, much more...

The mathematical modeling of disease transmission is a tool used to study the mechanisms by which diseases spread, to predict the future course of an outbreak and to evaluate strategies to control an epidemic. Its cost-effectiveness analyses can play a central role in maximizing the utility of limited resources for neglected tropical diseases.

To address this, the **Indo-US International Workshop on Modeling Dynamics, Statistical Inference and Prediction of Infectious diseases (MoDSIP-ID)**, will serve as an introduction to the formulation, analysis and application of mathematical models that describe the dynamics of infectious diseases.

It will review the contributions that mathematical modeling has made to optimizing intervention strategies of infectious diseases and propose directions forward in the modeling of problems associated with integrating new knowledge of host and pathogen ecology, evolutionary responses to interventions, and expanding the scope of sensitivity analysis in order to achieve robust results.

The workshop will also present participants with cutting edge and interesting methods of training. This will encourage new generations of mathematicians to explore future interventions in this area.

INVITED EXPERTS

Prof. Carlos Castillo Chavez
FEATURED PLENARY SPEAKER



Regents' Professor, a Joaquin Busto Jr. Professor of Mathematical Biology, Arizona State University, USA

ORGANIZING COMMITTEE

Dr. Krishna Kiran Vamsi Dasu

Asst. Professor, Dept. of Mathematics & Computer Science (DMACS), SSSIHL

Dr. Pallav Kumar Baruah

Associate Professor and Head, Dept. of Mathematics & Computer Science (DMACS), SSSIHL

Dr. Anuj Mubayi

Asst. Professor, Applied Mathematics, School of Human Evolution & Social Change, Arizona State University, USA

Dr. Padmanabhan Seshaiyer

Professor, Mathematical Sciences and Associate Dean for Academic Affairs, George Mason University, USA

WORKSHOP TOPICS

The workshop will feature the following topics on **Infectious Diseases**:

- » Mathematical Modeling
- » Ecology and Epidemiology
- » Computational Modeling
- » Parameter Estimation
- » Predictive Analytics
- » Uncertainty



DATES & LOCATION

12-15 AUGUST 2018

Prasanthi Nilayam Campus, SSSIHL,
Prasanthi Nilayam – 515134,
Dist. Anantapur, Andhra Pradesh, India

ELIGIBILITY

We invite faculty, scholars and industrial practitioners working in **epidemic and ecological modelling** as well as postgraduate students who wish to pursue **research in mathematical modelling**.

HOW TO APPLY

Application for the Event is now closed.

Registration and accommodation (on a twin sharing basis) during the event are **Free of Cost**. Lunch and snacks are complimentary.

CALL FOR PAPERS

Original and unpublished papers are invited. Interested participants can present their work orally or through posters (42" H x 33" W) in the broad areas of scientific themes **related to Infectious Diseases**. The abstract of the paper (and all enquiries) must be submitted via email to events.dmacs@sssihl.edu.in by **30 July 2018**. Papers selected by a peer review expert committee will be published in a special issue in **Letters in Biomathematics**.

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