

# January Schools on Mathematical Methods in Biology

## Instituto de Física Teórica - UNESP - São Paulo, Brazil

The successful series of summer schools on mathematical biology is already in its fourth edition and in 2015 will be followed by another related activity on the dynamics of infectious diseases and its connection with climate and global change. Candidates may apply for one or both activities.

### IV Southern-Summer School on Mathematical Biology

January 5 - 11, 2015

The 'IV Southern-Summer School on Mathematical Biology' is aimed at graduate students in Physics, Mathematics, Ecology and Epidemiology, having at least a basic knowledge of calculus and differential equations. Lectures cover the basics of population biology and are supplemented with modelling exercises addressing problems in ecology and epidemiology. Undergraduate students with exceptional records are also encouraged to apply.

#### Lecturer:

Roberto Kraenkel (IFT-UNESP, Brazil)

#### Organizers:

Marcel Clerc (Univ. Chile)

Paulo Inácio Prado (USP/SP, Brazil)

Roberto Kraenkel (IFT-UNESP, Brazil)

The online application form and more information can be found at: <http://www.ictp-saifr.org/mathbio4>

### School on Pathogen Dynamics, Climate and Global Change

January 12 - 24, 2015

The 'School on Pathogen Dynamics, Climate and Global Change' is aimed at PhD students and researchers with either strong interests in quantitative biology, or mathematicians and physicists interested in empirical non-linear systems. The school will provide an introduction to the basic underlying mathematical concepts used to study disease dynamics, their connections to climate systems, and the ecology and economics of land-use change.

#### Invited Lecturers:

Aaron King (Univ. Michigan, USA)

Adrian Tompkins (ICTP, Italy)

Matteo Marsili (ICTP, Italy)

Pej Rohani (Univ. Michigan, USA)

#### Organizers / Lecturers:

Andy P. Dobson (Princeton University, USA)

Giulio De Leo (Stanford University, USA)

Graciela Canziani (Universidad Nacional del Centro, Argentina)

Mercedes Pascual (University of Michigan, USA)

The online application form and more information can be found at: <http://www.ictp-saifr.org/pathogens>

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There is no registration fee and limited funds are available for local and travel support of participants.

The application deadline for both schools is **October 31, 2014**