

Workshop on Mathematical Models of Climate Variability, Environmental Change and Infectious Diseases

followed by

2nd Conference on Impact of Environmental Changes on Infectious Diseases

8 -16 May / 17-19 May 2017
Trieste, Italy



Further information:

Activity URL: <http://indico.ictp.it/event/7621/>

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The ICTP, in collaboration with ELSEVIER, is organizing a 7-day Workshop on Mathematical Models followed by the 3-day “2nd Conference on Impact of Environmental Changes on Infectious Diseases” (IECID), to which all workshop participants will be invited, to be held at the ICTP campus in Trieste, Italy.

Description:

Impacts to health are some of the most important outcomes of a potentially changing climate. Infectious disease outbreaks, which are often associated with climate extremes or a changing environment, heavily affect the most vulnerable; the poorest members of society in low and middle income countries in the south. In addition to major killers such as malaria, recent global health concerns include the ebola crisis and the ongoing pandemic of Zika. Understanding how environmental circumstances and changes in socio-economic factors, such as increasing population mobility, have lead to such outbreaks is key. The workshop is intended specifically for scientists and graduate students working in the areas of mathematical biology and ecology, atmospheric physics, or related subjects. Further details of the IECID conference are available at www.iecid.com.

Topics:

- Impact of current and predicted future environmental changes on infectious disease dynamics in people, wildlife, and livestock across the globe and actions needed to be taken
- Basic and advanced lectures on the theory behind the mathematical modeling of infectious diseases with focus on the calibration of these models with health datasets
- How to account for environmental factors, including climate
- Hands-on practicals concerning the development of models
- Policies and mechanisms of intervention to prevent or reduce the spread of infectious diseases related to environmental change
- Future prospects for tackling emerging and neglected diseases

Directors:

A. DOBSON, Princeton Univ.
A. KING, Univ. of Michigan
M. PASCUAL, Univ. of Chicago

Local Organizer:

A. TOMPKINS, ICTP

Workshop Speakers:

G. MANTILLA, Pontificia Universidad Javeriana
N. DOGRA, Green Fulbrighters Forum
N. CHITNIS, Swiss Tropical and Public Health Institute

How to apply:

Online application:
<http://indico.ictp.it/event/7621/>

Female scientists are encouraged to apply.

Grants:

A limited number of grants are available to support the attendance of selected participants, with priority given to participants from developing countries. There is no registration fee.

Deadline:

30 January 2017



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