

Workshop on Quantitative Human Ecology

25 - 29 July 2022
An ICTP Hybrid Meeting
Trieste, Italy



Further information:
<http://indico.ictp.it/event/9818/>
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ICTP, in collaboration with Santa Fe Institute, Fondazione Internazionale Trieste (FIT) and SISSA, organises a workshop on Quantitative Human Ecology. The workshop is co-sponsored by the US Mission in Italy, through the FIT project on "Researching sustainability, supporting sustainability" and it is part of the International Year of Basic Sciences for Sustainable Development (IYBSSD).

The workshop aims at fostering a science based consensus on challenges that are central to sustainability, such as rising inequality, demographic crises, migrations, biodiversity loss, and impacts of climate change. A wider integration of methods from hard sciences to statistical approaches and demography is needed in order to pursue the identification of general mechanisms, universal features, and stylized facts that are the roots of a comprehensive understanding of the determinants of sustainability.

In particular the workshop will tackle key challenges such as:

- 1) the mismatch of time-scales between policy measures and the relevant systems' dynamics
- 2) accounting for the human impacts and agency
- 3) the integration of different dimensions (e.g. inequality, climate, biodiversity, etc).

The ultimate aim is to shed light on systems of human and non-human interacting agents, with a large scale connectivity in order to delineate a research agenda on how basic sciences can contribute to sustainable development.

The workshop will bring together scientists from different disciplines (economics, ecology, demography, physics, complex systems science, climatology, epidemiology, social sciences, and intelligent systems) in order to promote a wider integration of methods across disciplines.

Organisers:

S. FANTONI, FIT, Italy
J. GRILLI, ICTP, Italy
D. KRAKAUER, Santa Fe Institute, USA
S. LEVIN, Princeton University, USA
M. MAMOLO, ISTAT, Italy
M. MARSILI, ICTP, Italy
G. SANGUINETTI, SISSA, Italy

Local Organiser:

M. MARSILI, ICTP, Italy

Speakers include:

S. BARRETT, Columbia University, USA
M. BENZAQUEN, Ecole Polytechnique, France
L. BETTENCOURT, University of Chicago, USA
J. COHEN, Rockefeller University and Columbia University, USA
S. CRABTREE, Santa Fe Institute, USA
M. DACOROGNA, University of Zurich, Switzerland
A. DASGUPTA, UK Foreign, Commonwealth and Development Office, Nigeria
P. DASGUPTA, Cambridge University, UK
S. DIAZ, University of Cordoba, Argentina
B. FATH, Towson University, Maryland, USA & IIASA, Austria
M. FRANCO GAVONEL, University of Exeter, UK
M. GALESIC, Santa Fe Institute, USA
P. GONG, Tsinghua University, China
A. GOUJON, IIASA and Austrian Academy of Sciences, Vienna Institute of Demography, Austria
M. LOREAU, CNRS, France
P.A. MARQUET, Pontificia Universidad Católica de Chile and Santa Fe Institute, USA
R. MUTTARAK, University of Bologna, Italy
E. OMODEI, Central European University, Austria
S. SCHERBOV, IIASA, Austria
D.P. SCHRAG, Harvard University, USA
J. SHAW-TAYLOR, University College London UK and IRCAI Ljubljana, Slovenia
A. VESPIGNANI, Northeastern University, USA
D. WOLPERT, Santa Fe Institute, USA

How to apply:

Online application:
<http://indico.ictp.it/event/9818/>

ICTP is committed to promote inclusion and gender equality in science.

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.

Deadlines:

1 May 2022

Applications needing financial support and/or visa

12 June 2022

Only online applications



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