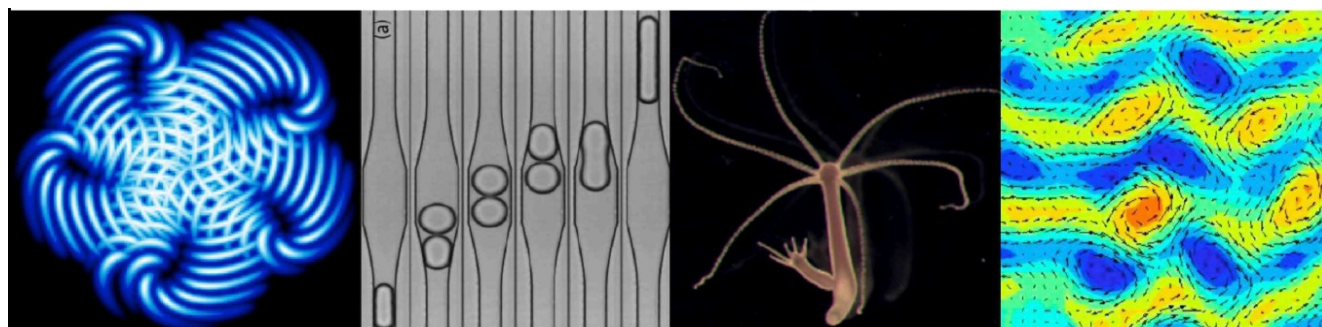




The Abdus Salam
**International Centre
for Theoretical Physics**
www.ictp.it



IOP Institute of Physics



Hands-On School: Research in Complex Systems

Training in experimental methods and research skills, aimed at early stage researchers

31 July - 11 August 2017
(Miramare – Trieste, Italy)

The Abdus Salam International Centre for Theoretical Physics (ICTP), Trieste, Italy, will organize a School on Hands-On Research in Complex Systems from **31 July - 11 August 2017**. This is the 9th edition of a school to provide interactive experiences with hands-on research involving table-top experiments with computer data acquisition and computational modeling. An intensive programme of laboratory experiences, mathematical modeling, and lectures will focus on complex systems in the physical and life sciences. This will be integrated by development of professional skills. The faculty are eminent scientists who have conducted frontier table-top research published in leading international scientific journals. Participants will take part in most of the experimental stations, rotating daily. For the first time, in this edition we will propose conducting research projects beyond the duration of the school.

TOPICS AND FACULTY

Surface physics (Luigi Cristofolini, University of Parma, Italy)
Bacterial motors and random walks (T. Pilizota, University of Edinburgh, UK)
Fluid Instabilities (B. Rodenborn, Centre College, USA)
Turbulence - Flow analysis by imaging particles (M. Schatz, Georgia Tech, USA)
Granular materials (M. Schroeter, University of Erlangen, Germany)
Modeling in MATLAB - Molecular Dynamics (M. Shattuck, The City College of New York, USA)
Chemical patterns (K. Showalter, University of West Virginia, USA)
Paper microfluidics (D. Vella, University of Oxford, UK, P. Cicuta, University of Cambridge, UK)
Computational Modeling – Fluid instabilities (L. Tuckerman, ESPCI Paris, France)

GRANTS

A limited number of grants are available to support the travel and living expenses of selected participants, with priority given to participants working in a developing country and who are at the early stages of their career.

HOW TO APPLY FOR PARTICIPATION

The application form can be accessed at the activity website <http://indico.ictp.it/event/7981/>. Once in the website, comprehensive instructions will guide you step-by-step, on how to fill out and submit the application form. Closing date for receipt of the applications is: **1 February 2017**.

More information about the Hands-On Schools is at www.handsonresearch.org

ACTIVITY SECRETARIAT: Telephone: +39-040-2240-355 Telefax: +39-040-2240-585

E-mail: smr3137@ictp.it ICTP Home Page: <http://www.ictp.it/>

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DEADLINE

For requesting participation:

1 February 2017

