

Hands-On Research in Complex Systems School



24 August – 4 September 2020
Trieste, Italy

Further information:
<http://indico.ictp.it/event/9117/>
smr3472@ictp.it

The School provides early stage researchers with interactive experiences of hands-on research involving table-top experiments with computer data acquisition and modeling. Participants will also take part in professional development of improved scientific communication in English.

Directors:

E. KOSTELICH, Arizona State University, USA
T. PILIZOTA, The University of Edinburgh, UK
M.F. SCHATZ, Georgia Institute of Technology, USA
M.D. SHATTUCK, The City College of New York, USA
M.L. CRESPO, ICTP

Description:

An intensive programme of laboratory experiments, mathematical modeling, and lectures gives participants immersive experiences with complex systems in the physical and life sciences. Additionally, participants will present their own research in talks and posters with extensive faculty feedback to enhance the presentation quality. The faculty are eminent scientists who have conducted frontier table-top research published in leading international scientific journals.

Topics:

- Biological Physics
- Modeling of Epidemics
- Soft Matter Physics
- Turbulence - Flow analysis by imaging particles
- Fluid Instabilities - Digital movies to determine dynamics
- Machine learning in table-top experiments
- Microfluidics
- Granular Materials
- Modeling in MATLAB - Molecular Dynamics
- Maker Movement Techniques - Microcontrollers
- Chemical patterns
- Computational Modeling

Local Organizer:

M.L. CRESPO, ICTP

Speakers will include:

A. BROWN, University of Edinburgh, UK
L. CRISTOFOLINI, University of Parma, ITALY
F. FENTON, Georgia Institute of Technology, USA
B. HUNT, University of Maryland, College Park, USA
M. POLIN, University of Warwick, UK
A-S. SMITH, FAU Erlangen-Nurnberg, GERMANY
T. SOLOMON, Bucknell University, USA

How to apply:

Online application:
<http://indico.ictp.it/event/9117/>

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:

24 May 2020



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