

# Workshop on Mechanics of the Earthquake Cycle



**16 - 27 October 2023**  
**An ICTP Meeting**  
**Trieste, Italy**

Further information:  
<http://indico.ictp.it/event/10219/>  
[smr3885@ictp.it](mailto:smr3885@ictp.it)

This workshop will inform, motivate and provide its participants with the state of the art and current challenges in the mechanics of the earthquake cycle also highlighting the most important areas where significant progress has been achieved recently and the full range of observational, theoretical and technical capabilities now available to the scientific community.

The programme will involve a series of lectures, seminars, discussions, practical and computer exercises.

The workshop will combine analytical and numerical modeling with seismic, geodetic, geologic and laboratory observations, in order to better understand the mechanics of the earthquake cycle. The workshop will focus on both continental and subduction zone earthquake cycles in a viscoelastic Earth and address the physics of slow and fast earthquake ruptures across multiple scales.

## Local Organiser:

A. AOUDIA, ICTP, Italy

## Lecturers:

J.-P. AMPUERO, Université Côte d'Azur, France  
J. P. AVOUAC, CALTECH, USA  
L. DAL ZILIO, ETH Zurich, Switzerland  
A. GUALANDI, University of Cambridge, UK  
R. HARRIS, USGS California, USA  
J. HAWTHORNE, University of Oxford, UK  
S. NIELSEN, Durham University, UK  
A. RUBIN, University of Princeton, USA  
B. E. SHAW, Lamont Doherty Earth Observatory, Columbia University, USA  
K. WANG, Pacific Geoscience Centre, Canada

## How to apply:

Online application:  
<http://indico.ictp.it/event/10219/>

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 PhD students and early career scientists from developing countries and working on the mechanics of the earthquake cycle. There is no registration fee.

## Deadlines:

**8 August 2023**

for applicants requesting financial and/or visa support

**1 September 2023**

for all other applicants



The Abdus Salam  
**International Centre  
for Theoretical Physics**  
[www.ictp.it](http://www.ictp.it)  
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