

# Joint ICTP-EAIFR-IUGG Workshop on Computational Geodynamics: Towards Building a New Expertise Across Africa



**3 - 7 July 2023**  
**Kigali, Rwanda**

Further information:  
<http://indico.ictp.it/event/10183/>  
[smr3849@ictp.it](mailto:smr3849@ictp.it)

This workshop will bring together cutting-edge researchers in computational geodynamics to Kigali with the aim to expose young African talents to this field. This event is co-sponsored by the ICTP-East African Institute for Fundamental Research (ICTP-EAIFR) of the University of Rwanda and the International Union of Geodesy and Geophysics (IUGG).

## Topics:

- 1) An introduction to geodynamics with particular emphasis on Africa. This activity will show the forces acting on the Earth, and the resulting movement and deformation on the Earth.
- 2) An introduction to the theoretical physical background. Emphasis will be placed on the essentials of continuum mechanics and rheological models.
- 3) Scaling analysis and dimensional analysis.
- 4) Model validation.
- 5) The concepts of parallel computing and the scalability of models on parallel architecture.

The activities will combine formal lectures and practical work using some open source software for geodynamics.

## How to apply:

Online application:  
<http://indico.ictp.it/event/10183/>

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.

## Director:

C. MERIAUX, ICTP - EAIFR, UR, Rwanda

## ICTP Scientific Contact:

A. AOUDIA, ICTP, Italy

## Speakers:

G. DUCLAUX, Côte d'Azur University, France  
I. GIOTTO, ICTP, Italy  
R. KATZ, University of Oxford, UK  
B. KAUS, Johannes Gutenberg University, Germany  
D. MAY, UC San Diego, USA  
W. SCHELLART, VU Amsterdam, Netherlands  
C. TIBERI, CNRS Geosciences Montpellier, University of Montpellier, France

## Deadline:

**15 April 2023**



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