



The Abdus Salam
**International Centre
for Theoretical Physics**
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Workshop on *Modelling of Wildfires and their Environmental Impacts* June 22 - 26, 2015

(Miramare, Trieste, Italy)

The Abdus Salam International Centre for Theoretical Physics (ICTP, Trieste, Italy) is organizing the **Advanced School on *Modelling Wildfires and their Environmental Impacts***, to take place from June 22 - 26, 2015.

Whether they are accidental, natural or linked to anthropogenic activities (e.g. agriculture) wild fires can be a direct threat to populations, ecosystems and economy as well as cause of regional air pollution. On longer time scale, wild fire activity is also associated to significant climate forcing and can deeply impact ecosystems, bio-geochemical cycles, soil erosion etc. Under the influence of climate and land use changes, wild fires frequency has been observed to increase significantly in certain region, and are expected to increase even more in the future. In this context there is a huge interest to better understand the occurrence and the dynamics of wild fires as well as their environmental impacts, notably through numerical modelling.

The workshop aims at giving an overview of the state-of-the-art in wildfire modelling and present model applications ranging from explicit simulations to risk assessments. Interactions between fire, land use and vegetation, meteorology and climate from local to global scale are of particular interest.

Wildfire is a particularly important issue for a lot of developing countries, with important regional specificities. The workshop aims at strengthening local scientific resources by promoting knowledge exchange and collaboration between students and specialists of wildfire modelling. Since the workshop is intended to gather expertise in different domains including computational fluid dynamics, meteorology, climate and ecology, it potentially represents a unique opportunity for students to complete their training in these domains.

Afternoon Hands-on sessions on "Fire spread and fire-atmosphere modelling (based on SFIRE and wrf-FIRE) (wrf-FIRE)" will be conducted in the ICTP computer labs.

PARTICIPATION:

Scientists and students from all countries, which are members of the United Nations, UNESCO or IAEA, may attend the Workshop and require a funding support subject to approval by the Workshop Directors. As the Workshop will be conducted in English, participants should have an adequate working knowledge of that language. Although the ICTP main purpose is to help researchers from developing countries, through a programme of training activities within a framework of international cooperation, a number of students and post-doctoral scientists from developed countries are also welcome to attend at their own cost.

Registration is free-of-charge for all attendees.

For those interested in making an oral or poster presentation, a one-page abstract (size A4) should be uploaded **directly to the on-line application**. (Please upload file attachments in **.pdf**)

APPLICATION:

The "On-line Application"

can be accessed on the ICTP activity website at:

<http://indico.ictp.it/event/a14267/>

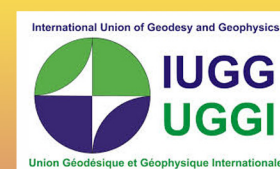
inclusive of a step-by-step instruction guide.

(Please save and upload file attachments in either: RTF format, .doc or .pdf)

ACTIVITY SECRETARIAT:

Secretary, Lisa Iannitti (iannitti@ictp.it)
the Abdus Salam International Centre for Theoretical Physics
Strada Costiera 11, 34151 Trieste, Italy
phone: +39-040-2240227, E-mail: smr2717@ictp.it

co-sponsors



ORGANIZERS

C. Mari
(CNRS, France)

K. Thonicke
(PIK, Germany)

F. Solmon
(ICTP, Italy)

SPEAKERS

**available on the ICTP activity
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<http://indico.ictp.it/event/a14267/>

DEADLINE

April 26, 2015

ICTP Home page:
<http://www.ictp.it/>

CNRS Home Page:
<http://www.cnrs.fr/index.php>

February 2015

