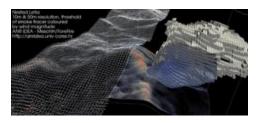


# Numerical simulation of Forest Fires, from combustion to emissions May 13 – 18, 2013

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The objective of the workshop is to present and exchange about the recent advances in wildfire combustion in a remote, stimulating and mind-lifting environment. Specific focus will be given to the different numerical approaches developed for the simulation of turbulent flame, fire front dynamics, fire emissions, atmospheric chemistry and model evaluation. The week is divided in two parts:

The first three days host a small restricted workshop that holds the conclusion and of the IDEA project («Incendies de forêts : simulation de la dynamique et des émissions atmosphériques par couplage de code», Forest Fires: propagation dynamics and atmospheric emissions simulation by code coupling) whose object was to create a reliable and integrated multi-scale approach for large-wildfire simulation.

The last two days are open for contributions related to the development, use and validation of numerical tools in the field of forest fire science.

The last session will be devoted to present these advances to fire managers, in order to exchange with decision makers, which expect pragmatic answers.

Selected and extended articles will be published in a special issue of "Natural Hazards and Earth System Sciences" an Open Access Journal of the European Geosciences Union.







- Combustion scale, solid to gaseous phase, combustion and associated atmospheric emissions
- Flame scale, turbulent flame to fire burns experiments and analysis
- Wildfire scale, large wildfire simulation, interaction with atmosphere dynamics
- Atmospheric scale, chemistry, impact of the fire at the regional scale and model evaluation





## Eminent scientists in the field will animate the school.

#### These include:

Arnaud Trouve (University of Maryland, USA), Catherine Liousse (Laboratoire d'Aérologie, France), Albert Simeoni (WPI, Boston, USA), Mark Finney (Firelab, Missoula, USA), Ana Isabel Miranda (University of Aveiro, Portugal), Jan Mandel (University of Colorado, USA), Andrew Sullivan (CSIRO, Canberra, Australia), Craig B Clements (San José state University, USA)





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### **Organization Committee**

Céline Mari (LA, Toulouse), Jean-Pierre Pinty (LA, Toulouse), Paul Antoine Santoni (SPE, CORTE), Eric Leoni (SPE, Corte), Bénédicte Cuenot (CERFACS, Toulouse), Daniel Cariolle (CERFACS, Toulouse), Christine Lac (CNRM, Toulouse), Patrick Le Moigne (CNRM, Toulouse), Valery Masson (CNRM, Toulouse), Vivien Mallet (INRIA, Paris), Dominique Morvan (M2P2, Marseille), Denis Veynante (EM2C, Paris), Nasser Darabiha (EM2C, Paris)

#### **Application and registration**

http://anridea.univ-corse.fr/cargese2013/http://www.iesc.univ-corse.fr

Registration fee : from 100€ to 350€

Deadline for application: February 28th, 2013