

Leverhulme Wildfires- FURNACES

Joint Research
Workshop



LEVERHULME

Centre for **Wildfires,**
Environment and Society

Tues 19th April, 13:00-17:00 GMT+1

MS Teams Virtual Meeting

The goal of the meeting is to promote in-depth discussions with our affiliated project Fire in the Future: interaction with Ecosystems and Society (FURNACES) about synergistic activities and future collaborations. FURNACES is a 3-year German-Austrian collaborative project (2020-2023), which aims to bring together expertise in fire ecology, social ecology, remote sensing, data science and vegetation modelling to better understand the local to global relationships between humans, climate, vegetation and fire. As such there are many parallel activities with ongoing work in Leverhulme Wildfires, most particularly in terms of understanding the drivers of fire regimes, meta-analysis of human-fire relationships and the development of better fire models. The meeting will showcase some ongoing work from both Leverhulme Wildfires and FURNACES to provide a basis for discussions about future collaborative activities.

Agenda

Please sign in a few minutes early to allow for a prompt start

13.00-13.05 Sandy Harrison (University of Reading): Introduction

13.05-13.20 Colin Prentice (ICL): Overview of Leverhulme Wildfires activities

13.20-13.35 Cathy Smith (RHUL): Fire Governance Working Group

13.35-13.50: Thomas Hickler (Senckenberg Research Institute): Overview of the FURNACES project

-----Break (10 minutes)-----

- 14.00-14.10 Olivia Haas (ICL):** Empirical models of burnt area, fire size and fire intensity
- 14.10-14.20 Tichaona Tavare Mukunga (TU Wien):** Impact of the inclusion of socio-economic variables on data-driven models in predicting global fire ignition occurrences
- 14.20-14.30 Michel Valette (ICL):** The drivers of agricultural and deforestation fires
- 14.30-14.40 Sarah Matej (BOKU University of Natural Resources and Life Sciences, Vienna):** Land use, human appropriation of primary production and fire
- 14.40-14.50 Theo Keeping (Reading):** Now-casting fire risk in North America
- 14.50-15.00 Sib0 Cheng (ICL):** Real time fire spread prediction

-----Break (10 minutes)-----

- 15.10-15.20 Ioannis Kountouris (ICL):** Preferences for wildfire management in Crete, preliminary analyses
- 15.20-15.30 Sam Rabin (Rutgers University):** The impact of management on fire and the carbon cycle
- 15.30-15.40 Paul Lincoln (Reading):** Model evaluation under past climate regimes
- 15.40-15.50 Matt Forrest (Senckenberg Research Institute):** Investigation of the burnt area residuals from the new FireMIP simulations using multivariate methods
- 15.50-16.00 Alex Kuhn-Regnier (ICL):** Improving the representation of fire in JULES
- 16.00-16.10 Ol Perkins (KCL):** Progress on including ABMs in JULES

16.10-17.00 Moderated discussions about future collaboration

17.00 END