Call for Abstracts

X-Fire 2026

2nd International Workshop on Extreme Wildfire Events

Invitation

The **COST Action NERO** (european Network on Extreme fiRe behaviOr, CA22164) is pleased to invite you to the **2nd International Workshop on Extreme Wildfire Events** (X-Fire 2026).

X-Fire aims to serve as a **dedicated international forum** on extreme wildfire events .It brings together scientists, practitioners, and policymakers to discuss the dynamics, observation, prediction, and management of wildfires that challenge conventional knowledge, management practices, and forecasting tools.

The conference will be held at **Faculty of Forestry and Wood Sciences** of the Czech University of Life Sciences in **Prague**, **Czech Republic**, between **23 Jun 2026** and **25 Jun 2026**.

We look forward to welcoming you to this exciting event! For practical information, please visit: https://xfire2026.nero-network.eu.

Submission Guidelines

Important Dates

Activity	Date
Abstract Submission Deadline	27 Feb 2026
Notification of Acceptance	1 Apr 2026
Workshop	23 Jun 2026 – 25 Jun 2026

Abstract Requirements

- **Length:** Abstracts must not exceed 4 pages.
- **Format:** Submissions should be in English and adhere to the formatting guidelines found in the official template: X-Fire 2026 - Abstract Template.
- **Content:** The abstract should clearly state the purpose of the research, the primary methodology, key findings, and conclusions.

Submission Process

All abstracts must be submitted electronically through our online submission form.

If you encounter any technical issues during the submission process, please contact Theodore M. Giannaros at thgian@noa.gr (tgiannaros@gmail.com) or Ljiljana Seric at ljiljana@fesb.hr.

Workshop Themes

We welcome submissions across a broad range of topics including, but not limited to:

1. Modeling of extreme wildfire events

- **a**. Wildland fire behavior dynamics: Research using physics-based, coupled fire-atmosphere, empirical, and statistical models, including ML- and DL based techniques, to investigate extreme wildland fire behavior. This includes applications to historical case studies, idealized modeling experiments, and data-driven modeling of fire spread and behavior.
- **b**. Data assimilation: Techniques for integrating observations into fire spread and behavior models to improve accuracy and predictive capabilities.
- **c**. Innovations in simulation/visualization techniques: Advancements in numerical methods, parameterizations, computational efficiency, and visualization techniques, including AI-driven modeling approaches, to enhance real-time simulation and large-scale interpretation of extreme wildfire events.

2. Observing extreme wildfire events

- **a**. Remote sensing of extreme wildland fire behavior: Observations of fire-atmosphere interactions, plume dynamics, and fire-induced turbulence using satellite, airborne, UAV/UAS, and ground-based remote sensing techniques.
- **b**. Field campaigns: Design and implementation of field campaigns to obtain in situ observations from real-scale extreme wildfire events.
- **c**. Innovations in sensor technology/data processing: Advancements in sensor development, automated data retrieval, and processing methods, including AI-enhanced data analytics, to improve the observation and characterization of extreme wildfire events, including multi-sensor fusion and emerging observational technologies.

3. Drivers, trends, and future projections of extreme wildfire events

a. Environmental drivers and predictive methods: Research on the drivers of extreme wildland fire behavior, including fuels, weather, and topography, the identification of tipping points, and the development of predictive approaches for extreme wildfire occurrence.
b. Climatologies and trends: Analyses of historical trends in extreme wildfire events, linking large-scale climate variability, atmospheric circulation patterns, and fuel changes using observational and modeled datasets.
c. Future projections: Assessments of conditions conducive to extreme wildfire events under different climate change scenarios, with a focus on fire-atmosphere interactions.

Publication

Accepted and presented abstracts will be collated and self-published in the Workshop Book of Abstracts.

Financial Support

Participation in X-Fire 2026 is **free of charge**. **No registration fees apply**. Participants are only responsible for their travel expenses.

The COST Action NERO (CA22164) will cover travel, accommodation, and daily subsistence expenses for eligible participants in X-Fire 2026. Reimbursement is **subject to budget availability** and will be offered to a **limited number of eligible participants**. The following baseline limitations apply:

1. Participants must be or become NERO members.
2. One author per paper is entitled to reimbursement.
3. Participants must accept the invitation sent to them via e-COST.

4. Participants must sign the official attendance list for each day they are present at the workshop.
5. Daily allowances (accommodation and daily subsistence expenses) will be reimbursed up to a maximum of EUR 191 from the day preceding the start of the Workshop and until one day after the end of the workshop.

Detailed information on the reimbursement modalities are available in the COST Annotated Rules.

Subject to budget availability, participants eligible for reimbursement will be selected
based on the following criteria:

- ☑ Quality of the submitted contribution
- ☑ Gender balance
- ☑ Career development
- ☑ ITC (Inclusiveness Target Country) affiliation
- ☑ Geographical distribution

Contact Information

For any inquiries regarding the call for abstracts or the workshop, please contact the Workshop Chair, Theodore M. Giannaros, at thgian@noa.gr (tgiannaros@gmail.com) or the Workshop Host, Roman Bercak, at bercak@fld.czu.cz.