

1st International Workshop on Extreme Wildfire Events



23–25 September 2025, Nicosia, Cyprus

Organizing Committee:

- Georgios Boustras, Cleo Varianou Mikellidou, Pierantonios Papazoglou, Klelia Vasiliou (Workshop Host and Local Organizer – European University of Cyprus)
- Theodore M. Giannaros (Action Chair), Akli Benali (Action Vice Chair), Nieves Fernandez Anez (WG1 Leader), Roman Bercak (WG1 Co-Leader), Georgios Papavasileiou (WG2 Leader), Giacomo Sbaragli (WG2 Co-Leader), Fabio Silva (WG3 Leader), Nuria Prat-Guitart (WG3 Co-Leader), Ljiljana Seric (WG4 Leader & Science Communication Coordinator), Renata Martins-Pacheco (WG4 Co-Leader), Valentina Bacciu (Grant Awarding Coordinator)

To learn more about NERO visit https://nero-network.eu/.

To learn more about X-Fire 2025 visit https://nero-network.eu/conferences/x-fire-2025/

Date last modified: 19 September 2025







TUESDAY 23 SEPTEMBER 2025	
Time Slot	
08:30 - 09:30	Registration & Welcome Coffee
09:30 – 09:40	Welcome Address G. Boustras
09:40 – 09:50	Workshop & NERO Overview T.M. Giannaros
09:50 – 10:35	The promised revolution of ML to anticipate extreme fire behavior: Hype or reality? F. Di Giuseppe
10:35 – 11:00	Coffee Break
SESSION 1: Numerical Modeling of Extreme Wildfire Events Chair: Nieves Fernandez Anez (WG1 Leader)	
11:00 – 11:15	Wildfire modeling by an advection-dispersion-reaction (ADR) approach enriched with empirical knowledge K. Vogiatzoglou
11:15 – 11:30	ForestSphere: A digital twin approach for monitoring and managing forests and wildfire risk C. Viegas
11:30 – 11:45	iFire AI: AI-powered wildfire simulation and 3D immersive visualization R. Huang
11:45 – 12:00	Path to extreme wildfire modeling via highly resolved vegetation structures F. Brännström
12:00 – 13:30	Lunch Break (self-paid)







SESSION 2: Observing Extreme Wildfire Events Chair: Theodore M. Giannaros (Action Chair)	
13:30 – 13:45	Mapping wildfire progressions and measuring rate of spread from "line scans" in Australia M. Storey
13:45 – 14:00	Pyroconvection analysis and data gathering from extreme wildfire events Z. Ntasiou
14:00 – 14:15	Estimating the probability of pyrocumulus formation in extreme wildfire scenarios: A preliminary approach C. Carillo
14:15 – 14:30	Evolution of extreme WUI wildfire incidents: Forensic chronospatial reconstruction methodology – Varnavas/Greece 2024 application N. Kamakiotis
14:30 – 14:45	Integrated multi-source dataset for spatiotemporal analysis of the 2024 Skradin wildfire, Croatia A. Bartulovic
Lightning Talks	
14:45 – 14:50	Calibration of a thermal tunnel to analyze the effect of atmospheric structure on fire spread D.X. Viegas
14:50 – 14:55	Wildfire recurrence in the Morrone Massif: Insights from 2017 and 2021 events L. Di Giammatteo
14:55 – 15:00	Modeling the largest wildfire using FARSITE in the Czech Republic: National Park Bohemian Switzerland 2022 Lucie Kudláčková







15:00 – 15:30	Coffee Break
15:30 – 17:30	Action Core Group Meeting Core Group Members Only

WEDNESDAY 24 SEPTEMBER 2025	
08:30 - 09:30	Registration & Welcome Coffee
09:30 – 10:15	Oscillatory fire behavior in wildfire propagation D.X. Viegas
10:15 – 10:45	Coffee Break
SESSION 3: Drivers, Trends, and Future Projections of Extreme Wildfire Events Chair: Ljiljana Seric (WG4 Leader)	
10:45 – 11:00	Hydroclimatic drivers of the 2025 Los Angeles fires and California wildfires J. McNorton
11:00 – 11:15	Cross-country correlations in fire weather enhance the danger of extremely widespread fires in Europe E. Gauthier
11:15 – 11:30	European fire synchronicity more likely due to overlapping fire seasonality and atmospheric blocking X. Li
11:30 – 11:45	Increasing likelihood of fire-conducive conditions in a warming Europe J. Miller
11:45 – 12:00	Eruptive fire early warning system D. Stipanicev







12:00 – 13:30	Lunch Break (self-paid)
13:30 – 15:00	From Research to Practice (Panel Discussion)
	Translating scientific advancements to operational fire management and policies.
	Moderator: Fábio Silva (WG3 Leader) Panelists: Zisoula Ntasiou (Hellenic Fire Corps), Mario Miguel Valero (Universitat Politècnica de Catalunya), Darko Stipanicev (University of Split), Gavriil Xanthopoulos (Institute of Mediterranean Forest Ecosystems) Rapporteur: Renata Martins Pacheco (WG4 Co-leader)
15:00 – 15:30	Coffee Break
15:30 – 16:30	Action Core Group Meeting Core Group Members Only
	™ 🝷 😀 Social Dinner
Exact time to be	Zanettos Cypriot Tavern (https://share.google/g1ArMR7eqasNXlycO)
announced!	Self-paid: ~25-30€ per person (estimated)

THURSDAY 25 SEPTEMBER 2025	
08:30 - 09:30	Registration & Welcome Coffee
09:30 – 10:15	The need to measure extreme fire behavior: remote sensing advances, challenges, and opportunities M.M. Valero
10:15 – 10:45	Coffee Break
SESSION 4: Managing Extreme Wildfire Events Chair: Fábio Silva (WG3 Leader)	







10:45 – 11:15	Fighting extreme fires from the air: Emerging risks for flight safety I. Kamperos
11:15 – 11:45	Fire weather research and modeling in Croatia: What we've learned from extreme events I. Tomasevic
11:45 – 12:15	The wildfire data portal as a strategic tool for more efficient decision-making: Case study in Northern Europe O. Stokkeland
12:15 – 12:30	Workshop Wrap-Up & Closing T.M. Giannaros & G. Boustras
12:30 – 14:00	Lunch Break (self-paid)
14:00 – 15:30	Action MC3 Meeting Action MC Members Only
15:30 – 16:00	Coffee Break
16:00 – 17:00	Action MC3 Meeting Action MC Members Only



