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# II FIRE IN THE EARTH SYSTEM

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## OUR SPONSORS



**UNIVERSIDAD DE GRANADA**  
FACULTAD DE FILOSOFÍA Y LETRAS

Contact number and emails (organizers)

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3. Ioannis Daliakopoulos ([daliakopoulos@hydromech.gr](mailto:daliakopoulos@hydromech.gr) → virtual conference)

# DAY 1---04/07/2023

Preconference day. Guided visit of Granada city by a professor of Human Geography Department (University of Granada) and La Alhambra.

We will start here at 9:30: <https://goo.gl/maps/LifyTwQdgAdtznQE8>



# DAY 2-3---05-06/07/2023

In situ conference with keynotes, oral and poster presentations with sponsor tables and coffee breaks at the Faculty of Philosophy and Letters at the University of Granada. First floor, Aula García Lorca (ROOM).

**LINK GOOGLE MEET:** <https://meet.google.com/ynh-kuog-njz>

**Instructions for online presentations:** [https://firecongress.eu/wp-content/uploads/2021/10/RECORDING-Guide\\_Poster-presentation.pdf](https://firecongress.eu/wp-content/uploads/2021/10/RECORDING-Guide_Poster-presentation.pdf)

# DAY 4--- 07/07/2023

Postconference fieldtrip I to the Baetic Experimental Plot ([www.egemap.eu](http://www.egemap.eu)) and Valle de Lecrín/Sierra Nevada forest fire site.

We will depart at 7:30 from here: <https://goo.gl/maps/QExSPtDRFRsyH4oH6>



# DAY 5---08/07/2023

Postconference fieldtrip II to Los Guájares forest fire site.

We will depart at 7:30 from here:

<https://goo.gl/maps/QExSPtDRFRsyH4oH6>



## PRELIMINARY AGENDA (PENDING ON LAST MINUTE CORRECTIONS) 05/07/2023

9:15	Dean and Junta de Andalucía, organizers welcome		
<b>9:30-9:45</b>	<b>Keynote speaker 1</b>		<b>Marco Turco</b>
<b>9:45-10:00</b>	<b>Keynote speaker 2</b>		<b>Marta Yebra</b>
	<b>Artificial Intelligence and Machine Learning for Wildfires</b>		<b>Jesús RC</b>
10:10	Automated mapping of U.K. upland burning using Sentinel 2 imagery and Deep Neural Networks	Mr	Shewring
10:20	Capabilities of unmanned aerial vehicles for the classification of forest fuels in Mediterranean environments using machine learning techniques	Mr	Hoffrén
	<b>Climate-driven changes to wildfires</b>		<b>Marco Turco</b>
10:30	The influence of teleconnection patterns on wildland fire	Mr	Qu
10:40	Likely future changes in the conducive conditions to the extreme wildfire events in Europe.	Dr	Moghli
10:50	Assessing the role of climate change in the rate of spread of wildfires in the Iberian Peninsula	Mr	Senande-Rivera
11:00	Feedbacks on weather via fire-generated aerosols over Greece	Mr	Rovithakis
	<b>Data-Driven Wildfire Research: From Forests to Health Impacts</b>		<b>Filipa Esteves</b>
11:10	Protecting Wildland Firefighters' Health: saving the lives of those who fight to save us	Ms	Esteves
Coffee break	11:30-12:00		
	<b>Fire and soil hydrology</b>		<b>Jesús FG</b>
12:00	Monitoring the evolution of fire affected forest and agricultural land after the Los Guajares wildfire September 2022	Dr	Seeger
12:10	Hydrological impacts of wildfires on diverse climatic regions	Prof	Voulgarakis
	<b>Fire ecology: flora and fauna</b>		<b>A. Leverkus</b>
12:20	Post-fire regeneration across climate gradients	Mr	Zomer
12:30	Fire intensity effects on soil microbiota in shrub encroached subalpine grasslands	Mr	Alfaro
12:40	Fire-prone animals: adaptive responses in lizards	Mr	Álvarez-Ruiz
	<b>Fires at the Wildland-Urban-Interface</b>		<b>N. Fernández</b>
12:50	Field observation sheets to identify resilience to forest fires in Chilean Mediterranean landscapes	Dr	Ojeda
13:00	Ecosystem Vulnerability analysis to Barcelona wildland-urban interface fires WUICOM – BCN	Ms	Núñez

13:10	Characterisation of forest fires in the wildland-urban interface area in Galicia in the year 2022: Fires with an operational situation of risk for the populations.	Mr	Rodríguez Jiménez
	<b>Geospatial maps/products/services in the various phases of wildfire management and decision-makers</b>	<b>Marta Yebra</b>	
13:20	WildFireSat: The Canadian Operational Mission	Dr	de Jong
13:30	Creation and implementation of a decision-making tool focused on the automation, scaling, updating and dissemination of information related to variables that affect the risk and behaviour of fire.	Dr	Sánchez-García
13:45	Optimizing Fire Severity Mapping using the Image Compositing Technique: An Assessment of the Effects of the Compositing Period and the Reducing Statistical Method on Fire Severity Signal.	Ms	Quintero
13:55	Wildfire hazard and social vulnerability on evacuation decision: Methodological proposal applied to municipalities of Central Portugal	Mr	Pinto
14:05	Modelling the linkages between structural fire risk and fire impacts in forest areas: the case of Águeda catchment	Ms	Parente
14:15	Assessing the social and biophysical conditions that define pyroregions in mainland Portugal.	Mr	Barbosa
Lunch	14:30-15:45		
16:00	<b>Keynote speaker 3</b>		<b>Alexander Leverkus</b>
	<b>Fire regime and forest management</b>		<b>Elena Marcos</b>
16:15	Impact of Fire Frequency and Severity on Post-Fire Recovery and Growth of Mediterranean Serotinous Pines	Ms	Marcos
16:25	Fire and predation shape postfire regeneration of Pinus halepensis populations	Ms	Guiote
	<b>Human &amp; Social Dimensions of Wildfire</b>		<b>Manuel Seeger</b>
16:35	Quantifying land fragmentation impacts on fire at global, biome and population scale	Mr	Bowring
16:45	Community-Based Fire Management in East and Southern Africa's Savanna-Protected Areas	Ms	Crocker
16:55	What message do we want to convey? An analysis of the media treatment of largest fires in Spain	Dr	Vázquez Varela
17:05	Evacuation priority in the municipality of Alvaiázere: Comparing evacuation models in emergency situations	Ms	Gonçalves
17:15	Between peatlands and fires: livelihoods of peatland communities in Southeast Asia	Dr	Dermawan

POSTER SESSION

17:30-19:00

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**06/07/2023**

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**9:00 Keynote speaker 4: Saskia Keestra**

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**9:10 Keynote speaker 5: Ito Kyoko**

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**Landscapes, fire and human perception**

**Andrés C.**

9:25 Wooden construction, supply difficulties due to the loss of forest mass due to forest fires, among other causes

Mr

Garay

9:35 Human perceptions of fire expressed through the arts: a science centre's journey (so far) of the art-science interface

Dr

Ford

**Post-fire management and restoration in Mediterranean Europe**

**J.L. Serrano**

9:45 FRISCO: Assessing and managing post-fire risk of water quality contamination

Ms

Parente

9:55 Post-fire forest recovery in the framework of precision restoration: what to do and what not to do.

Prof

Castro

**Pyric Herbivore and Mixed Animal Grazing for Mitigating Threats From Wildfire**

**Brad Wilcox**

10:05 Pyric herbivory: Developing a landscape level application of the fire-grazing interaction

Prof

Fuhlendorf

10:15 The Prairie Project: Restoring Grasslands in the Great Plains with Fire and Grazing

Dr

Wilcox

10:25 Pyric herbivory for mountain habitat restoration in SW Europe: learning for the challenges and the trade-offs of different regional contexts

Dr

Canals

10:35 An integrated education-extension approach for developing agents of change and innovations to affect cultural change - Promoting adoption and public support of pyric herbivory and multi-species grazing

Prof

Wu

10:45 Developing Learning Experiences to Increase Student Understanding of Rangeland Ecosystem Services and the Essential Role of Fire and Herbivory

Mr

Yockers

10:55 Open2preserve, SUMHAL, Pyriclab and COMPAS: four pyric herbivory projects in South Spain.

Mr

Ramos

Coffee  
Break

11:00-11:45

**Rural Challenges, Social Communication and Fire Risk**

**E. Castelló I. Ottolini**

11:45 Towards a Resilient Role Reporting: Farmers, the Rural and Wildfires' Journalistic Narratives in Spain

Prof

Castelló

11:55 Wine producers as landscape wildfire stewards against wildfire

Mrs

Darnay

12:05 Going beyond communicating about risk: Learning from community-led wildfire initiatives

Mrs

Ottolini

12:15 The impact of wildfire experience in the adoption of preparedness measures to reduce future losses in industries

Mr

Correia

**Wildfires today: A scientific and societal challenge**

**Artemi Cerdà**

12:25 Looking for "fire" and "forest fire" concepts in the Spanish Primary School curricula.

Prof

Cerdà

12:35 Multitemporal analysis of land-use changes in the 2022 forest fire that occurred in the Guájares comarca (Granada, Spain)

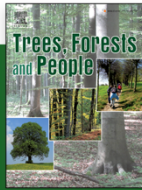
Ms

Gómez

12:45	Effectiveness of the dehesa system to prevent and fight against wildfires	Dr	Pulido
12:55	A Bibliometric Analysis of Forest Fires	Mrs	Bahçeci
	<b>Wildfires, environmental risks, and the role of management</b>	<b>A. Leverkus</b>	
13:00	Investigating the Vulnerability of water reservoirs to post-fire water contamination in Portugal.	Mr	Nitzsche
13:10	Identification of potential areas to introduce agroforestry systems as a practice to mitigate wildfires risk in Europe	Mr	Barrena
13:20	Restoring the sustainability and fire resilience of a forest – a landscape planning approach	Mrs	Müller
13:30	A review on the driver of fires and associated biodiversity impacts in Southeast Asia	Ms	Silviana
13:40	Tourism carrying capacity of Mediterranean natural protected areas based on wildfire safety	Ms	Ortega
Lunch	14:00-15:45		
	<b>Keynote speaker 6: Filipa Esteves</b>		
	<b>Increasing the Resilience to fire and climate change in Europe</b>	<b>M. Pulido</b>	
16:15	Reducing forest carbon vulnerability to forest wildfires through climate-smart management	Ms	Piazza
16:30	Envisioning a new rural landscape for Centre Region, Portugal	Mr	Franco
16:45	Holistic and Integrated Wildfire Risk Management in Slovakia - Introduction of Slovak Pilot Study	Ms	Majlingova

POSTER SESSION

17:00-18:30



## Trees, Forests and People


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4 July - 8 July 2023  
Fire in the Earth System (fEs23)

### Conferences

4 July - 8 July 2023

#### Fire in the Earth System (fEs23)

Trees, Forest and People is planning to publish an special issue with contributions for this conference.

In this special issue, communications from fEs23 will be selected to expand their contributions.

This special issue is recommended for experts in ecology, hydrology, geography, soil science, engineering, environmental sciences, biology, geomorphology, forestry, agronomy, education, sociology or medicine. Specially, the main topics welcome to this volume are fire dynamics and modelling, fire risk management, fire monitoring techniques, fire effects on vegetation, fauna, soil and water, and socio-economic, historical, geographical, political perception and educational approaches. We are willing to link experts over the world that consider the understanding of Fire in the Earth System as an emergency for humankind and natural ecosystems. We propose an interdisciplinary approach to the fire discipline considering sharing knowledge as the most important way to achieve sustainability and land degradation neutrality.

Visit the conference site for more details:



SPECIAL ISSUE 2 (Andrés Caballero, Stefan Doerr, Paulo Fernandes and Jesús Rodrigo-Comino)  
<https://revistaseug.ugr.es/index.php/cuadgeo/announcement/view/151>

Fire in the Earth System: a key topic from human to natural ecosystems.Granada (03-07 July, 2023). Call for Papers.

📅 2022-07-04



Call for Papers (PDF)  
*Special Issue, 2024*

Submissions and Guidelines for authors: