

Wildland-urban interface fire risk assessment in Europe

online | Jun 23, 24 e 25

Photo by André Dias Nobre

Forest fires have been a reality for centuries, but in recent years they have caused increasing death toll in southern European countries, the USA and Australia, among others. This increase in deaths has its cause by climate change and extreme atmospheric phenomena, but also by the expansion of cities to wildland areas. Most deaths occur in the wildland-urban interface, so it is critical to develop risk mitigation strategies. As an interface phenomenon, these mitigation measures must be assessed in an holistic approach dealing with both buildings and the wildland environment, otherwise they will fail its purpose

Program__

Module 1 Analysis of Mati wildfire (Greece, 23/07/2018). Observed processes and lessons learned. | **Module 2** -Analysis of wildfires in Portugal 2017-2018. Fire outbreak, propagation and particularities of Pedrógão Grande and Monchique fires and their repercussion over populated areas. | **Module 3** -Fire risk prevention planning in the wildland-urban interface (WUI) mesoscale. The value of the community joint effort on vegetation, infrastructure and street network planning and risk mitigation. | **Module 4** -Approaches for the risk mitigation in the WUI microscale. Prevention and self-protection principles based on experience and performance based simulation (PBD) for the protection of houses and their surroundings. Fire-adapted gardening. | **Module 5** -Structure vulnerability in forest fire events. Strategies for the protection of houses and measures for a safer shelter-in-place. | **Module 6** -Residential fuels, domino effects and other associated risks in the WUI areas in case of forest fires. Stabilisation of WUI aftermath and operations safety in the microscale

Tutor__



David Caballero, is MSc in Forestry Engineering specialising in forest fires, finishing PhD studies in 2003. David is a freelance consultant on forest fire risk assessment and prevention planning in wildland-urban interface areas in Europe. He is the coordinator for the European Observatory of WUI (WUIWATCH) and gathers more than 25 years of experience in international research projects, planning and assessment. He is the author or co-author of more than 60 publication on the subject of forest fires. He accumulates more than 400 hours as instructor on risk assessment and operation, regularly collaborating with the Spanish National School of Civil Protection. He is a member of the NFPA, member of Pau Costa Foundation, Member of the European Union Civil Protection Mechanism and Member of the International Association of Fire Safety Science (IAFSS). He holds the medal to the merit of civil protection of the Ministry of Interior (2017) and the Golden Swatter Award for the best research activity (2011). He is currently working on new technologies for the risk assessment at the micro and mesoscales in the WUI, using drones, 3D models and advanced VR/AR technology.

Where and When__

Place | **Online**

Date | **Jun, 23, 24 and 25**, 9h – 11h45 (PT & UK) | 10h - 12h45 (CET)

Registration__

Online registration: www.sfpe.pt

Registration fee includes documentation and certificate to be sent by email

SFPE Global members or members of any of the **SFPE Europe chapters** | 80 €

(membership to be confirmed with SFPE Inc. or local chapter)

Others | 150 €



Hosted by



Support

