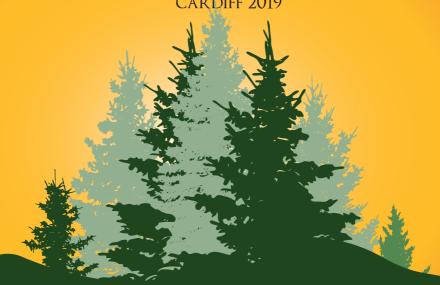


# OFIRE CONFERENCE

CARDIFF 2019



## Manage the Fuel - Reduce the Risk

Covering a wide range of areas including:

Land Management, Partnership Working, Soil Erosion, Water Quality, Academic Study, Meteorology and Fire Tactics.

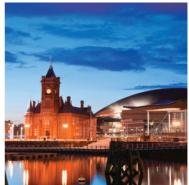
Wednesday 20th November - Thursday 21st November 2019 Principality Stadium, Cardiff











# South Wales

Home to Cardiff, the young and creative capital city, South Wales is a hub of sporting events and Welsh culture. Discover coastal hikes, vibrant communities and the serenity of the Wye Valley.

## Ynysowen & Aberfan District Choir

A village choir, orgininating from the coal mining industry in the South Wales valleys. In the wake of the Aberfan Disaster the choir was formed with the intention of raising money for charity as well as a social activity for the local men.





# Welcome

#### Dear Delegate,

South Wales Fire & Rescue Service has done a great job in setting up the conference, attracting a wide range of speakers and delegates. Now, we need to focus on making the best use of this opportunity to learn from each other.

Over the last 15 years, the UK Fire & Rescue Services have improved their understanding of wildfire and their ability to respond to incidents; we need to encourage the same improvement in the planning for wildfire amongst other sectors, before the smoke starts to rise.

I hope we can share ideas during this conference about how we can achieve this

### **Simon Thorp**

**EWWF Chairman** 

It is with great pleasure that I offer you a warm Welsh welcome to our Capital City of Cardiff for the England and Wales Wildfire Forum Conference 2019: 'Manage the Fuel-Reduce the Risk'. The threat, impact and prevalence of wildfires nationally and internationally is a cause of great concern. Changes to our climate, socio economic influences and diversification of land uses are factors we must consider in reducing the risk of wildfires. Through a considered and holistic land management strategy it is more prevalent than ever for all agencies; public, private and voluntary to engage in dialogue and share best practice to reduce the wildfire threat.

This Conference will be a unique opportunity for delegates to share and discuss a broad range of subjects related to wildfire and land management. It will also allow an opportunity to consider how coordinated land management can have a positive impact on reducing the threat and consequences of wildfires.

I thank you for your attendance and your support.

#### Huw Jakeway QFSM, MSc, FIFireE

Chief Fire Officer
South Wales Fire and Rescue Service

## **EWWF Conference -** Cardiff 2019

DAY ONE, 20-11-19

		Registration	1235	<b>Q&amp;A</b> on previous 4 presentations	
	Session 1 (Chairs: Stefan Doerr and Alex Held)		1250	Lunch and view posters	
	09:30 <b>Opening</b> – Sophie Howe, Future Generations Commissioner		Session 2 (Chairs: Craig Hope and Cristina Santin)		
	09:45	Simon Thorpe - EWWF Chairman Address	13:50	Key Note: Carlos Trindade  – Wildfire risk management- Mafra county case study	
	10:15	Key Note: Marc Castellou  – Extreme wildfire events in Atlantic Europe	14:20	Andrew Scott - The evolution of fire traits in plants, plant invasives and wildfire	
	10:45	Christine Eriksen – Wildfires,		challenges	
		Insurance and Recovery in the Blue Mountains, NSW, Australia	14:35	Henrik Lindberg – Why there are so few forest fires in Finland?	
	11:05	Break and view posters	14:50	<b>Q&amp;A</b> on previous two	
	1135	Jonathon Bell, Dean Ferreira  – An interactive wildland urban interface wildfire risk assessment		presentations	
			15:00	Break and view posters	
	1150	Fergal Monaghan – Locally led – European Innovation Partnership (EIP) and Rural Development Programme (RDP) approaches to fire management in Irish uplands	15:20	Slobodan Milanovic – Forest fire probability mapping in Serbia using logistic regression	
			15:35	<b>Sarah Woodcock</b> – Healthy Hillsides Partnership and Q&A	
			15:50	<b>Q&amp;A</b> on previous two	
	1205	Nicholas Kettridge – The impact of wildfire on contaminated moorland catchment water quality	16.00	presentations	
			16:00	Key Note - Matthew Perry – Past and future fire weather hazard for the UK	
	1220	Nienke Brouwer – Wildfire management to prevent uncontrollable wildfires	16:30	Close	
			19:30	Evening Dinner – Singing from Ynysowen & Aberfan Male Voice Choir	

## **EWWF Conference - Cardiff 2019**

DAY TWO, 21-11-19

08:30 <b>Sessio</b>	Coffee	11:	45	<b>Q&amp;A</b> on previous three presentations	
(Chairs: Rob Gazzard and Matthew Jones)				Key Note: Claire Belcher – Joining FRS with scientists to	
09:00	What we mean when we say fuels: Finding the story of fuels in our work and media			better understand wildfire	
		12	::30	Lunch and View Posters	
		Session 4			
<b>0</b> 9:30	Harry Mitchell, Guillermo Rein – PERIL: Toolkit for the design of wildfire trigger buffers in WUI evacuations	(C	(Chairs: Rob Stacey and Claire Belcher)		
		13:30	Nuria Prat – Expanding collaborations through the Pau Costa Foundation: From		
09:45	<b>Duncan Glen</b> - Fire at Will: Managing wildfire on military land			theory to practice	
		13:45	Sergio Prats – Effectiveness of community based		
10:00	Rob Stacey – Supporting fire incident commanders to manage the fuel			initiatives for mitigation of land degradation after wildfires	
10:15	<b>Q&amp;A</b> on previous 3 presentations	14	1:00	<b>Paul Attwell</b> – Firewise UK - Dorset	
10:30	Break and Posters	14	l:15	<b>Q&amp;A</b> on previous three presentations	
11:00	Emma C. Underwood – Estimating the impacts of wildfire on ecosystem services in California				
		14	1:30	<b>Key Note: Alex Held</b> – Why is Fire-Smart not happening?	
		15	5:00	SWFRS Chief Fire Officer	
11:15	Bruce Hardy – Fuel reduction through vegetation management in the Cheviot Hills			Huw Jakeway QFSM, MSc, FIFireE	
		15	5:15	Simon Thorpe EWWF Chairman	
11:30	Rory M. Hadden – Experimental investigation	15	5:25	Close	

of the role of fuel load, structure and environmental

prescribed fires

conditions on low intensity

Book of abstracts can be found here:



## **EWWF Conference -** Poster Presentations

#### **Graham Sullivan**

Does managing fuel always reduce the risk?

#### **Duncan Blake**

Mapping wildfire occurrence, extent and severity in Scotland using remote sensing: some recent advances

#### **Zakary Campbell-Lochrie**

The role of fuel loading and structure on the physical phenomena that control the flame spread process

#### Oscar Kennedy-Blundell

Pyrogenic carbon formation and degradation in UK peatland catchments

#### **Anna Losiak**

Burning trash for science: using waste to monitor wildfire energies

#### **Rosie Watts**

The influence of people on wildfire occurrence in an area in South Wales with a high proportion of human ignitions

#### **David Cross**

Key Statistics on Wildfires in England

#### Sergio Prats

Assessment of post-fire erosion mitigation tools: impact on carbon stocks and soil quality

#### Esther Peña Molina

Historical evolution of NDVI and recurrence of large forest fires in SE Spain

#### Sam Dixon

Risk of sustained ignition mapping for the Peak District National Park

#### Mattew W. Jones

Fire Effects on the Carbon Cycle at Ranging Timescales

#### **Asleigh Harper**

Wildfire research in the Brecon Beacons National Park: fuels, recovery rates and management implications

#### Cathelijne Stoof

PyroLife: 15 PhD's on integrated fire management

#### Carlos Cabo

Advancing 3D Fuel Mapping for Wildfire Behaviour and Risk Mitigation Modelling

#### **Gareth Clay**

Toward a UK fire danger rating system

#### **Ben Robinson**

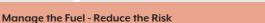
Haldon Landscape Scale Wildfire Management Plan

#### **Adriana Ford**

Leverhulme Centre for Wildfires, Environment and Society: towards a new frontier in global wildfire

#### **Katy Thorpe**

Managing vegetation with remote control mower



## **EWWF Conference -** Keynote Speakers



Marc Castellou

Associated Professor. University of Lleida

KEYNOTE: Extreme wildfire events in Atlantic Europe



## **Carlos Trindade**

Municipal Coordinator of the Municipal Civil Protection Service and Director of the Municipal Heliport

KEYNOTE: Wildfire risk management-Mafra county case study



### **Matthew Perry**

Senior Applied Scientist at the Met Office

KEYNOTE: Past and future fire weather hazard for the UK



### **Ron Steffens**

Faculty (Prescott College) & Incident Commander/ Fire Analyst (Grand Teton National Park)

KEYNOTE: What we mean when we say fuels: Finding the story of fuels in our work and media



#### **Claire Belcher**

Director of the University of Exeter wildFIRE Lab

**KEYNOTE**: Joining FRS with scientists to better understand wildfire



#### **Alex Held**

Senior Expert, EFI Resilience Programme

KEYNOTE: Why is Fire-Smart not happening?

## **EWWF Conference - Cardiff 2019**

## **EXHIBITORS**













## Cynhadledd FfTGCLI - Caerdydd 2019

## ARDDANGOSWYR











