



EWWF

The England & Wales Wildfire Forum

WILDFIRE 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



Cyfoeth
Naturiol
Cymru
Natural
Resources
Wales



Gwasanaeth Tân ac Achub
De Cymru

South Wales
Fire and Rescue Service



EFI



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, originating 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

08:30 **Registration**

Session 1

(Chairs: Stefan Doerr and Alex Held)

09:30 **Opening** – Sophie Howe,
Future Generations
Commissioner

09:45 **Simon Thorpe**
- EWWF Chairman Address

10:15 **Key Note: Marc Castellou**
– Extreme wildfire events in
Atlantic Europe

10:45 **Christine Eriksen** – Wildfires,
Insurance and Recovery in
the Blue Mountains, NSW,
Australia

11:05 **Break and view posters**

11:35 **Jonathon Bell, Dean Ferreira**
– An interactive wildland urban
interface wildfire risk assessment
tool

11:50 **Fergal Monaghan** – Locally
led – European Innovation
Partnership (EIP) and Rural
Development Programme
(RDP) approaches to fire
management in Irish uplands

12:05 **Nicholas Kettridge** –
The impact of wildfire on
contaminated moorland
catchment water quality

12:20 **Nienke Brouwer** – Wildfire
management to prevent
uncontrollable wildfires

12:35 **Q&A** on previous 4
presentations

12:50 **Lunch and view posters**

Session 2

(Chairs: Craig Hope and Cristina Santin)

13:50 **Key Note: Carlos Trindade**
– Wildfire risk management-
Mafra county case study

14:20 **Andrew Scott** - The evolution
of fire traits in plants, plant
invasives and wildfire
challenges

14:35 **Henrik Lindberg** – Why there
are so few forest fires in
Finland?

14:50 **Q&A** on previous two
presentations

15:00 **Break and view posters**

15:20 **Slobodan Milanovic** – Forest
fire probability mapping
in Serbia using logistic
regression

15:35 **Sarah Woodcock** – Healthy
Hillsides Partnership and Q&A

15:50 **Q&A** on previous two
presentations

16:00 **Key Note - Matthew Perry** –
Past and future fire weather
hazard for the UK

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 **Coffee**

Session 3

(Chairs: Rob Gazzard and Matthew Jones)

09:00 **Key Note: Ron Steffens** –
What we mean when we say
fuels: Finding the story of
fuels in our work and media

09:30 **Harry Mitchell**, Guillermo
Rein – PERIL: Toolkit for the
design of wildfire trigger
buffers in WUI evacuations

09:45 **Duncan Glen** - Fire at
Will: Managing wildfire on
military land

10:00 **Rob Stacey** – Supporting
fire incident commanders to
manage the fuel

10:15 **Q&A** on previous 3
presentations

10:30 **Break and Posters**

11:00 **Emma C. Underwood** –
Estimating the impacts
of wildfire on ecosystem
services in California

11:15 **Bruce Hardy** – Fuel
reduction through
vegetation management in
the Cheviot Hills

11:30 **Rory M. Hadden** –
Experimental investigation
of the role of fuel load,
structure and environmental
conditions on low intensity
prescribed fires

11:45 **Q&A** on previous three
presentations

12:00 **Key Note: Claire Belcher** –
Joining FRS with scientists to
better understand wildfire

12:30 **Lunch and View Posters**

Session 4

(Chairs: Rob Stacey and Claire Belcher)

13:30 **Nuria Prat** – Expanding
collaborations through the
Pau Costa Foundation: From
theory to practice

13:45 **Sergio Prats** – Effectiveness
of community based
initiatives for mitigation
of land degradation after
wildfires

14:00 **Paul Attwell** – Firewise UK -
Dorset

14:15 **Q&A** on previous three
presentations

14:30 **Key Note: Alex Held** – Why is
Fire-Smart not happening?

15:00 **SWFRS Chief Fire Officer**
Huw Jakeway QFSM, MSc, FIFireE

15:15 **Simon Thorpe**
EWWF Chairman

15:25 **Close**

Book of abstracts
can be found here:

<http://bit.ly/EWWF19abstracts>



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

Matthew 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?

EWFF Conference - Cardiff 2019

EXHIBITORS



Cynhadledd FfTGCLI - Caerdydd 2019

ARDDANGOSWYR

