



## NSW Rural Fire Service Library

### New books, articles and reports in your library this month



After over a year of preparation to move the library including mountains of correspondence and hours of discussions, liaising with other emergency services, members, and vendors, other Australian and international libraries, digitisation of hundreds of VHS tapes, refining the current collection, planning the relocation of 10,000 books, journals and DVDs and a mass of related paraphernalia across twenty subjects, observing the packing of almost two hundred crates, readjusting shelves and re-shelving the collection, updating websites and redesigning promotional material, setting up displays and testing a number of subject arrangements - **the NSW RFS Library is now open in the new Headquarters!**

Open to all members to visit, the library is located on the third floor of 4 Murray Rose Avenue, Sydney Olympic Park. The [website](#), postal, email and phone contact details have remained the same. Thank you to everyone who popped by to offer help with packing or unpacking or just offered verbal support, it was just very lovely of everyone.

Contact your librarian Katie to borrow any of the books and DVDs or to request articles at [rfs.library@rfs.nsw.gov.au](mailto:rfs.library@rfs.nsw.gov.au)



### FIRE INCIDENTS – AUSTRALIAN

**Experiences of a prolonged coal-mine fire** (*Journal article*)  
*Disaster Prevention and Management, Vol 27 no 5, 2018*

The purpose of this paper is to examine the perspectives of local residents regarding the impact of the long-duration Hazelwood open cut coal mine fire in rural Australia.

Please contact the library to request a copy of this article  
NSW RFS Staff and SES HQ Staff may use this [Emerald link](#) to access the article at work



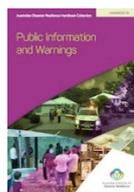
**Gardens of fire** (*Book*)

Robert Kenny, 2013

The paperback format is now available in the library collection.

In 2009, as the Black Saturday wildfires swept through the state of Victoria, Australia, writer and historian Robert Kenny defended his home in Redesdale. His fire plan was sound and he was prepared. But, the reality of the fire was more ferocious and more

### EMERGENCY MANAGEMENT



**Public information and warnings**  
(*Handbook*)

*Australian Disaster Resilience Handbook Collection: Handbook 16, 2018*

The effective communication of public information and warnings is a critical

element of emergency management, with the power to save lives. This handbook provides insight and guidance to people who have responsibility for communication with the public in the event of an emergency. The handbook presents nationally agreed principles for warning policy and practice and explores the essential elements and discipline of effective public information and warning delivery.

Use this [AIDR link](#) to read the handbook online.

**Survivors' experiences of journalists and media exposure: A retrospective qualitative study 15 years after a ferry disaster** (*Journal article*)

unpredictable than he could have imagined. The years that followed were marked by grieving, recovering, and eventually rebuilding - a process starkly framed by the choice between remembering and forgetting. This resulting book is a riveting story of personal loss, woven with intellectual and historical investigations of: fire in the Australian landscape.

This [title link](#) allows NSW RFS Staff to open the eBook directly when at work. Volunteers and for those wishing to use the eBooks at home or borrow the paperback edition, please [contact the library](#).

### Why Australian retailers should respect the past and rename their 'Black Friday' sale (News article)

Daniel May, *The Conversation*, 22 November 2018

Traditionally the Friday after the Thanksgiving holiday, "Black Friday" is known in the United States as a commercial bonanza where shoppers can gain large discounts. Australians shopping online have taken advantage of US-based Black Friday sales for years. But in Australia, the term Black Friday has a very different history. The 1939 Black Friday bushfires in Victoria were Australia's worst environmental disaster at the time. Seventy one people were killed and over 1,000 houses were destroyed on January 13, 1939, by fires driven by extreme winds and severe drought.

Use this [The Conversation link](#) to read the news article online



The **NSW Rural Fire Service 2017-2018 Annual Report** is now available online and can be downloaded in full as a PDF or Flipbook format.

Access this report and archived reports on the NSW RFS website [here](#).

## FIRE INCIDENTS – INTERNATIONAL



### Global Wildfire Information System Viewer

The Global Wildfire Information System is a joint initiative of the [GEO](#) and

the [Copernicus](#) Work Programs. The Global Wildfire Information System (GWIS) aims at bringing together existing information sources at regional and national level in order to provide a comprehensive view and evaluation of fire regimes and fire effects at global level.

GWIS builds on the ongoing activities of the European Forest Fire Information System ([EFFIS](#)), the Global

*Disaster Prevention and Management, Vol 27 no 5, 2018*  
The media is an important part of disaster management, yet little is understood about their interplay with the disaster survivors. The purpose of this paper is to examine disaster survivors' long-term retrospective views of their experiences with journalists and the media coverage.

Please contact the library to request a copy of this article  
NSW RFS Staff and SES HQ Staff may use this [Emerald link](#) to access the article at work



The latest issue of **Australian Journal of Emergency Management** (October 2018) is now available online This edition of the Australian Journal of Emergency Management focuses on evidence of the science behind disaster mitigation. It also includes research reported at the Fire and Emergency Management Conference (AFAC18); the impacts of disasters on the homeless; and how pets and farm stock can be included in emergency plans.

The full version of the issue is available online [here](#) or please contact the library if you would like to be added to the email alert for the next issue.

### Best practice relief supply for emergency services in a developed economy: Evidence from Queensland Australia (Journal article)

*Journal of Humanitarian Logistics and Supply Chain Management, Vol. 8 Issue: 1, 2018*

The purpose of this paper is to discuss the challenges inherent in planning and responding to disaster events in a multi-agency context where numerous governmental and non-governmental actors and agencies are involved in the planning and response phases. In particular, the authors examine a situation where a lead agency has recently been delegated the responsibility for emergency relief logistics and how it might determine and implement best practice

Please contact the library to request a copy of this article



### Tsunami emergency planning in Australia (Handbook)

*Australian Disaster Resilience Handbook Collection: Handbook 11, 2018*

This handbook is a guide to the key principles of tsunami preparedness. Its purpose is to enhance the capacity and knowledge of emergency managers with regards to emergency planning for tsunami in Australia. The handbook outlines the key scientific information and principles of risk

Terrestrial Observing System (GTOS) Global Observation of Forest Cover- Global Observation of Land Dynamics (GOF-CGOLD) Fire Implementation Team ([GOF-C Fire IT](#)), and the associated Regional Networks, complementing existing activities that are on-going around the world with respect to wildfire information gathering.

Use this [link](#) to access the GWIS viewer.

#### **The bitter lesson of the Californian fires** (*News article*)

*David Bowman, The Conversation, 14 November 2018*

The California fires are just the most recent in a series of major wildfires, including fires in Greece in July this year that killed 99 people, Portugal and Chile in 2017, and Australia. Why do wildfires seem to be escalating? Despite president Donald Trump's tweet that the California fires were caused by "gross mismanagement" of forests, the answer is more complex, nuanced, and alarming.

Use this [The Conversation link](#) to read the news article online

#### **Carbon emissions from Amazonian forest fires up to 4 times worse than feared** (*ScienceDaily News*)

*Lancaster University, 8 October 2018*

Carbon losses caused by El Niño forest fires of 2015 and 2016 could be up to four times greater than thought, according to a study of 6.5 million hectares of forest in Brazilian Amazonia.

Use this [ScienceDaily link](#) to read the news article online

#### **DRIVER+ Project Trial #2 – European response to Mediterranean forest fire** (*US Magazine article*)

*International Fire Fighter, September 2018*

DRIVER+ (Driving Innovation in Crisis Management for European Resilience) is an EU-funded project, designed to enhance Europe's capacity to respond to natural or man-made crises and disasters. Through a practitioner-focused approach, the project seeks to stimulate the uptake of innovative solutions by European practitioners, including firefighters.

Use this [IFF link](#) to read the article online.

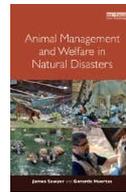
#### **Narrow focus on wildfire trends underestimates future risks to water security** (*ScienceDaily News*)

*Utah State University, 29 October 2018*

Dramatic increases in wildfire over the last few decades have garnered considerable media attention. Numerous headlines have claimed that the amount of wildfire in the western US is unprecedented. However, scientists have now compiled long-term fire datasets that demonstrate the amount of wildfire occurring in the western US

assessment, warning systems, emergency planning, community education, response management and recovery, in the context of tsunami.

Use this [AIDR link](#) to read the handbook online.



#### [Animal management and welfare in natural disasters](#) (*eBook*)

*James Sawyer and Gerardo Huertas, 2018*

This book considers the needs of animals in the aftermath of disasters and explains the importance of looking to their welfare in

extreme events. The authors explore how animals are affected by specific disaster types, what their emergency and subsequent welfare needs are and the appropriate interventions. They describe the key benefits of management of animals to populations and discuss preventative measures that can be taken to reduce risk and build resilience. They also include a summary of recent debates and public policy advances on animals in disasters.

This [title link](#) allows NSW RFS Staff to open the eBook directly when at work. Volunteers and for those wishing to use the eBooks at home, please [contact the library](#) for a password-embedded link.

#### **L'Aquila, central Italy, and the "disaster cycle", 2009-2017** (*Journal article*)

*Disaster Prevention and Management: An International Journal, November 2018*

This paper offers a critical examination of the aftermath of the L'Aquila earthquake of 6 April 2009. It considers the elements of the recovery process that are unique or exceptional and endeavours to explain them. Several aspects of the disaster are unique. These include the use of large, well-appointed buildings as temporary accommodation and the efforts to use legal processes to obtain justice for alleged mismanagement of both the early emergency situation and faults in the recovery process.

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NSW RFS Staff and SES HQ Staff may use this [Emerald link](#) to access the article at work

## **AVIATION**

#### **How optimized initial attack strategies are winning a new wildfire war** (*US Magazine article*)

*International Fire Fighter, September 2018*

remains far below the acreage burning prior to pre-European settlement.

Use this [ScienceDaily link](#) to read the news article online

## FIREFIGHTING



[Wildfire : on the front lines with Station 8](#)  
(Book)

Heather Hansen, 2018

Throughout the US 2016 wildfire season, journalist Heather Hansen witnessed firsthand the heroics of the Station 8 crew in Boulder, Colorado. She tells that story here, layered with the added context of the history, science, landscape, and human behaviour that, year-by-year, increases the severity, frequency, and costs of conflagrations in the West. She examines the changes in both mindset and activity around wildfires and tracks the movement from wildfire as something useful, to something feared, to something necessary but roundly dreaded.

Please contact the library to request a loan of this book.

### **The wildfire within: gender, leadership and wildland fire culture** (Journal article)

*International Journal of Wildland Fire Vol 27, no 11, 2018*

This article examines findings from a 2016 study on gender and leadership within the British Columbia Wildfire Service (BCWS), Canada. The study utilised action research to facilitate an in-depth conversation among wildland firefighters about gender and leadership, and to explore participant-derived actions steps within the BCWS towards a perceived ideal future(s). The study found widespread occurrences of gender discrimination in the day-to-day practice of leadership, and that gender made a difference for wildland firefighters' experiences of normative workplace culture.

Please contact the library to request a copy of this article

### **U.S. Firefighter Injuries in 2017** (Journal article)

*NFPA Journal, Nov-Dec 2018*

An estimated 58,835 US firefighter injuries occurred in the line of duty in 2017, a decrease of 5 percent from the year before and the lowest number since NFPA began analysing this data in 1981.

Use this [NPFA link](#) to read the report online.

## FIRE BEHAVIOUR



Around the world, wildfire behaviour is changing. In the U.S., climate change, unhealthy forests and human development in the wildland-urban

interface (WUI) are combining to create more frequent, fast-burning blazes. As crews on the ground battle these dangerous and increasingly common threats, we have a duty to provide them with the best support to ensure their safety and success. One key piece of that support system is fire aviation.

Use this [IFF link](#) to read the article online.

## SEARCH AND RESCUE



**The Pathfinder: Search and Rescue way-finder system** (US Magazine article)

*International Fire Fighter, September 2018*

The International Forum to Advance First Responder Innovation was established in 2014. The lack of consolidated global capability gaps, limits innovation in the emergency services first responder market. In 2016, the Forum identified and agreed upon four Common Global Capability Gaps. This story is about the first one. Capability Gap 1: The ability to know the location of responders and their proximity to risks and hazards in real time. The Pathfinder system is a sort of virtual electronic "search rope" that uses a breadcrumb concept to assist firefighters in keeping oriented during interior firefighting and search operations where visibility may be limited, or near zero, due to heavy smoke conditions.

Use this [IFF link](#) to read the article online.

More books, websites and manuals on this topic are found on our library webpage [Search and Rescue Resources](#).

## NATURAL ENVIRONMENT



[Restoring farm woodlands for wildlife](#) (eBook)

This book provides an overview of the key new insights associated with the biodiversity values of replanted/restored vegetation. It is based on the past 19 years of detailed long-term research in the

temperate woodlands (wheat-sheep) belt of eastern Australia. The book is intended to provide key guidelines for ensuring best practice restoration efforts in temperate agricultural environments in Australia,

### **Mapping bushfire hazards and impacts: annual project report 2017-18 (Online report)**

*ANU and Bushfire and Natural Hazards CRC, 2018*

Understanding and predicting fire behaviour is a priority for fire services, land managers and sometimes individual businesses and residents. This is an enormous scientific challenge given bushfires are complex phenomena, with their behaviour and resultant severity driven by complicated interactions among living and dead vegetation, topography and weather conditions.

Download the report using this [BHHCRC link](#) or contact the library for a copy.

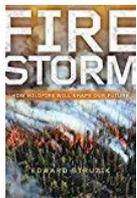
### **Got to burn to learn: the effect of fuel load on grassland fire behaviour and its management implications (Journal article)**

*International Journal of Wildland Fire Vol 27, no 11, 2018*

The authors conducted a field-based experimental burning study to investigate the effect of grass fuel load and structure on the spread rate of grassfires. Fuel load was found to be inversely related to the rate of fire spread. A fuel load function for this effect was proposed.

Please contact the library to request a copy of this article

## **FIRE MANAGEMENT**



### **[Firestorm : how wildfire will shape our future \(eBook\)](#)**

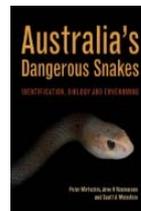
*By Edward Struzik, 2017*

Now also available as an eBook. For two months in the spring of 2016, the world watched as wildfire ravaged the Canadian town of Fort McMurray. A glance at international headlines shows a remarkable increase in higher temperatures, stronger winds, and drier lands- a trifecta for igniting wildfires like those that we have never seen before. In Firestorm, journalist Edward Struzik visits scorched earth from Alaska to Maine, and introduces the scientists, firefighters, and resource managers making the case for a radically different approach to managing wildfire in the 21st century.

This [title link](#) allows NSW RFS Staff to open the eBook directly when at work. Volunteers and for those wishing to use the eBooks at home, please [contact the library](#) for a password-embedded link. A hardcopy edition is also available for loan.

particularly those widespread environments that have been heavily cleared and which have been targeted for revegetation programs.

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### **[Australia's dangerous snakes : identification, biology and envenoming \(eBook\)](#)**

*Peter Mirtschin, 2017*

Australia's Dangerous Snakes examines the biology, natural history, venom properties and bite treatment of medically

important venomous marine and terrestrial snakes. It contains comprehensive identification profiles for each species, supported by keys and photographs. In addition to their medical importance, the environmental roles of these snakes and the threats that are causing the decline of many of these reptiles are discussed.

This [title link](#) allows NSW RFS Staff to open the eBook directly when at work. Volunteers and for those wishing to use the eBooks at home, please [contact the library](#) for a password-embedded link.

## **COMMUNITY RESILIENCE**

### **Culture strongly influences coping behaviors after natural disasters (ScienceDaily News)**

*University of Illinois at Urbana-Champaign, 2 Nov 2018*

Demographic and cultural differences strongly influence the coping styles young people use when they're affected by a natural disaster, and these disparities should be taken into account when providing services to help them recover from these traumatic experiences, researchers say.

Use this [ScienceDaily link](#) to read the news article online

### **Attachment, bushfire preparedness, planning and response among animal guardians: A south Australian case study (Journal article)**

*PLOS Current Disasters, August 2018*

Animal ownership has been identified as a risk factor for human survivability of natural disasters. Animal guardians have been reported to react or act in ways that may put their own safety and that of emergency services personnel at risk when faced with a natural disaster.

This study investigated the relationship between people's emotional attachment to different types of pets and their



### [Fire otherwise : ethnobiology of burning for a changing world \(Book\)](#)

*Edited by Cynthia Fowler and James Welch, 2018*

This book advocates for a more inclusive fire ecology, a shift from the paradigmatic globalised version of fire science and management towards research and management that embraces anthropogenic fire regimes and broader understandings of the ways humans interact with fire. The authors present new evaluations of human interactions with fires in contexts of changing environmental conditions.

*Please contact the library to request a loan of this book.*



### [Wildfire and power : policy and practice \(Book\)](#)

*Peter Fairbrother and Meagan Tyler, 2018*

This book brings together perspectives from sociology, political science, gender studies, and history to produce new ways of analysing

wildfire preparedness and policy in Australia. Drawing on data from hundreds of interviews with residents, volunteers and emergency services professionals living and working in wildfire-prone areas, the authors focus on issues of power and inequality.

*Please contact the library to request a loan of this book.*

### **Why we need more support for wildland fire research (US Magazine article)**

*International Fire Fighter, September 2018*

The threat to people and property from wildland fires is increasing, fuelled by a combination of urban sprawl, climate change and lack of understanding. Unfortunately, the scientific knowledge base that we have today is becoming outdated and inadequate. We need increased support for scientific research to help build a new generation of fire behaviour models to better estimate the causes, risks and impacts of wildland fires.

*Use this [IFF link](#) to read the article online.*

## **SMOKE MANAGEMENT**

### **Will wildfire smoke hurt your health long-term? Pollution studies offer clues (US News article)**

*The Sacramento Bee, 19 November 2018*

Last year, as the Tubbs Fire scorched its way across Napa and Sonoma counties, environmental researchers at the University of California, Davis, fielded questions about the health impact of chronic exposure to smoke from a wildfire that torched trees and urban structures alike. UCD's Kent Pinkerton and Rebecca Schmidt and other

preparation and actions during the Pinery bushfire in South Australia in November 2015. Thirty-four people who were impacted by the fire participated in an online survey.

*Use this [PLOS link](#) to read the news article online*

## **LEADERSHIP AND MANAGEMENT**



### [Fly! : life lessons from the cockpit of QF32 \(Book\)](#)

*Richard de Crespigny, 2018*

Richard de Crespigny shares the insights and techniques he built up over decades in the high-pressure world of military and civilian aviation. Covering leadership, teamwork, risk-assessment, decision-making, crisis management, lifelong resilience and more, it's a book whose wisdom can be applied to challenges and opportunities in the workplace as well as to life. Including exclusive insights from fellow hero pilot Sully Sullenberger, astronaut Neil Armstrong, and NASA's Gene Kranz.

*Please contact the library to request a loan of this book.*

*The library also holds a copy of the author's earlier book, [QF32](#).*



### **Australia's gender equality scorecard - November 2018 (Online report)**

*Workplace Gender Equality Agency, 13 Nov 2018.*

The results of the WGEA's latest dataset emphasise the importance of measuring workplace gender equality. The data shows that change is happening in Australian workplaces.

*Use this [APO link](#) to read the report online.*

### **Fire officer leadership strategies for cost management (Journal article)**

*Disaster Prevention and Management, Vol 27 no 5, 2018*

The purpose of this paper is to explore leadership strategies of fire officers used by fire office leaders to manage costs associated with hazardous operations.

*Please contact the library to request a copy of this article*  
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## **VOLUNTEER MANAGEMENT**

researchers had the same questions. They sought studies on urban wildfires and found no answers.

Use this [Sacramento Bee link](#) to read the news article online

**Bushfire smoke is pro-inflammatory and suppresses macrophage phagocytic function** (*Journal article*)  
*Scientific Reports, Volume 8, December 2018*

Bushfires are increasing in frequency and severity worldwide. Bushfire smoke contains organic/inorganic compounds including aldehydes and acrolein. BFSE impairs macrophage function to a similar extent as CSE, highlighting the need for further research, especially in patients with pre-existing lung disease.

Please use this [Scientific Reports link](#) to read the article online.

## METEOROLOGY AND CLIMATE CHANGE

**Climatological Variability of Fire Weather in Australia** (*Journal article*)

*Journal of Applied Meteorology and Climatology Vol 57, no 2, 2017*

Long-term variations in fire weather conditions are examined throughout Australia from gridded daily data from 1950 to 2016. The McArthur forest fire danger index is used to represent fire weather conditions throughout this 67-yr period, calculated on the basis of a gridded analysis of observations over this time period. This is a complementary approach to previous studies (e.g., those based primarily on model output, reanalysis, or individual station locations), providing a spatially continuous and long-term observations-based dataset to expand on previous research and produce climatological guidance information for planning agencies.

Please contact the library to request a copy of this article



**Deluge and drought: Australia's water security in a changing climate** (*Online report*)  
*Climate Council of Australia, 13 Nov 2018*

The focus of this report is how climate change is influencing the water cycle globally as well as here in Australia. We describe the

economic importance of the Australian water sector, the changes that are already occurring because of climate change, the health implications of these changes, the water energy nexus, and the impacts of changes in the water cycle on urban water supplies, agricultural productivity and natural ecosystems. We also examine global 'hot spots' where changes in the water cycle are

**Enabling sustainable emergency volunteering: annual project report 2017-18** (*Online report*)

*Bushfire and Natural Hazards, 2018*

An inexorable link exists between volunteerism and community capability and resilience with respect to disaster risk. Communities and governments increasingly expect emergency management organisations (EMOs) to actively enable and enhance the value of volunteering for communities with respect to building community capability and resilience.

Download the report using this [BHHCRC link](#) or contact the library for a copy.

## WOMEN AND SUCCESS

**Women leaders and organizational diversity: their critical role in promoting diversity in organizations** (*Journal article*)

*Anuja Gupta, Development and Learning in Organizations: An International Journal, 2018*

Women leaders outperform male leaders on many key leadership competencies. A recent study found that women were rated higher by their peers, subordinates, and bosses in 12 of the 16 competencies measured by the evaluation. The two areas with the highest differentials in ratings between women and men were "taking initiative," and "driving for results"; both are typically considered masculine competencies. Some other areas in which women outperform men are – inspiring and motivating others, building relationships, collaboration and teamwork, listening to others, integrity and honesty, and championing change.

Please contact the library to request a copy of the article.

Books on this topic are found in our library's [Women and Success online bibliography](#).

## MENTAL HEALTH

Books on this topic are found in our library's [Mental Health and You](#)

## GENERAL

**Progress in Australian regions: yearbook 2018** (*Online report*)

*Department of Infrastructure, Regional Development and Cities (Australia), October 2018*

already occurring, where slower, long-term changes could lead to high risks, and discuss the possible disruption of global food trade from droughts in critical regions.

Use this [APO link](#) to read the report online.

### **Beautiful weather: The social politics of global warming**

*(Journal article)*

*Australian Quarterly, Oct-Dec 2018*

According to the Bureau of Meteorology: Greater Sydney experienced very warm and dry conditions in July. At the very least it's fun to imagine the newscasters announcing, "Exxon is coming ashore across New Jersey, leaving havoc in her wake", or "Chevron forces evacuation of 375,000".<sup>7</sup> Perhaps, though, we should be even more granular, not only nicknaming deadly weather events after fossil fuel companies, but individuals who have fought for inaction on reducing emissions, or propagated denial

*Please contact the library to request a copy of this article*



The 2018 Yearbook is the fifth in a series of statistical reports that are designed to help answer the question of how our regions are progressing against social, economic, environmental and governance indicators.

This information will enable governments, private investors and the community to identify trends that are important for policy development, investment decisions and planning.

Use this [BITRE link](#) to read the report online.

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