



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

This month's new resources includes Nicholas Jan's book on leadership secrets of the Australian army, the new US FEMA Strategic plan, articles from the new journal publication *Fire*, FRNSW Bronnie Mackintosh's Tedtalk, articles on search and rescue, Hugh Mackay's updated edition on Australia Reimagined, and Time Magazine's special issue on drones, plus much more...

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)



### **When helping hurts: PTSD in first responders** (Online report)

*Australia21, June 2018*

This is the report of a day-long Australia21/FearLess roundtable exploring better ways of preventing the debilitating mental consequences of traumatic stress and improving mental health outcomes for front-line first responder personnel. The project was supported by the Australian Federal Police, Victoria Police and Northern Territory Police, Fire and Emergency Services.

Please use the [Australia21 link](#) to read the report online. A hardcopy edition will be added to our collection if you would prefer to borrow this format.

The Library's collection of books on mental health is listed here, [Mental Health and You](#). If you would like to borrow any of these titles or make a suggestion for an addition to this book collection please don't hesitate in [contacting me](#).

## FIRE INCIDENTS – AUSTRALIAN



### **Extreme fire behaviour: reconstructing the Waroona fire pyrocumulonimbus and ember storms** (Hazard Note)

*BNHCRC, June 2018*

The Waroona bushfire in Western Australia burnt 69,000 ha in January 2016, destroying more than 160 homes and causing two fatalities. During the first two days of the fire, there were four periods of extreme fire behaviour: two involving massive pyrocumulonimbus (bushfire thunderstorm clouds) and two major ember showers. This extreme fire behaviour was unexpected, so why did it occur?

To read this Hazard Note online, please use this [link](#).



### **Fire : a collection of stories, poems and visual images** (Book)

*Margaret River Press, 2013*

An anthology of literature, images and commentary on our relationship in Australia to

## EMERGENCY MANAGEMENT



### **The big ones : how natural disasters have shaped us** (Book)

*Lucy Jones, 2018*

In *The Big Ones*, renowned seismologist Dr Lucy Jones offers a bracing look at some of our most devastating natural events, whose reverberations we continue to feel today. Spanning from the destruction of Pompeii in AD 79 to the hurricanes of 2017, it considers disaster's role in the formation of our religions; exposes the limits of human memory; and demonstrates the potential of globalisation to humanise and heal.

Please contact the library to borrow this book.

### **Responding to economic climate risk in Australia** (Online report)

*Four Twenty Seven (427), 2018*

This report explores the connection between climate hazards and financial risks and shares examples of corporate adaptation and investor engagement to build

fire in its many manifestations. The works collected here are confronting, challenging, vital and also healing. Please contact the library to borrow this book.

## FIRE INCIDENTS – INTERNATIONAL



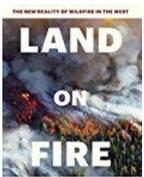
### Northern California Fire Updates (Newspaper articles) *The Sacramento Bee, 2018*

Gives a roundup of the latest fire information on the Country Fire (over 32500 acres), Pawnee Fire, Waverly Fire and other incidents. (Image: A woman takes photos from the upper parking lot of the Cache Creek Casino Resort overlooking the County fire as it burns out of control Saturday in Brooks, Calif. The blaze spread quickly overnight. (Peter DaSilva/ EPA/Shutterstock) Please use their [newspaper link](#) to read online.



### [British Columbia burning](#) (Book) *Bethany Lindsay, 2018*

2017 was the worst wildfire season in British Columbia history. As early as July 7, the province declared a state of emergency as upwards of 200-plus separate fires raged across the province. More than 45,000 people were forced to leave their homes. In *British Columbia Burning*, Bethany Lindsay uses words and images to follow firefighters, evacuees and those who stayed to save their communities in what was B.C.'s worst wildfire season ever. Please contact the library to borrow this book.



### [Land on fire : The New Reality of Wildfire in the West](#) (eBook)

Now available as an eBook as well as our hardcopy format. Wildfire season is burning longer and hotter, affecting more and more people, especially in the US west. *Land on Fire* explores the fascinating science behind this phenomenon and the ongoing research to find a solution. This gripping narrative and dramatic photographs details how years of fire

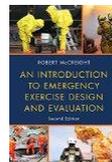
resilience in Australia. Regulatory pressure and financial damage are necessitating an increase in physical climate risk disclosure in Australia. To read this report online, please use this [427 link](#).

**Semi-professionals: emergency response as an additional task in current occupations** (Journal article)  
*International Journal of Emergency Services, June 2018*  
The purpose of this paper is twofold: first, to identify occupational groups who can act as semi-professional first responders, in order to shorten the response times to frequent emergencies, and second, to identify related opportunities, challenges and needs of training, emergency supplies and information technology (IT) support. Please contact the library to request a copy of this article  
NSW RFS and SES HQ Staff may use this [Emerald link](#) to access the article at work



### **Air crash response** (Journal article) *Crisis Response Journal, May 2018*

Darren McQuade reports on multi-agency emergency response and business continuity operations after an aircraft crashed into a shopping centre in Melbourne, Australia, killing all five on board. Please contact the library to request a copy of this article.



### [An introduction to emergency exercise design and evaluation](#) (Book)

Now available as a hardcopy book as well as an eBook. Designed to help practitioners and students of emergency management understand various aspects of the exercise design process. Emergency exercises are an important component of an organization's emergency planning and preparedness. This [title link](#) allows NSW RFS Staff to open the eBook directly when at work. To borrow the hardcopy or for those wishing to access our eBooks at home, please [contact the library](#) for a password-embedded link.



### **US Federal Emergency Management Agency Strategic Plan, 2018-2022** (Online report) *US FEMA, May, 2018*

FEMA's disaster policy, upon which so many communities may depend, is changing. FEMA's recently released strategic plan reveals several important shifts in federal disaster relief policy. FEMA is streamlining its mission to focus on coordination with

suppression and chronic drought have combined to make the situation so dire.

This [title link](#) allows NSW RFS Staff to open the eBook directly when at work. To borrow the hardcopy or for those wishing to access our eBooks at home, please [contact the library](#) for a password-embedded link.



### **Switching on the Big Burn of 2017 (Journal article)**

*Fire, Vol 1, no 1, 2018*

New University of Colorado Boulder-led research shows that three major

"switches" affecting wildfire -- fuel, aridity, and ignition -- were either flipped on and/or kept on longer than expected last year, triggering one of the largest and costliest U.S. wildfire seasons in recent decades. (Image: Thomas fire, largest fire in California's modern history, over 113,000 hectares burnt, 2018)

Read the journal article online at the [MDPI Fire link](#). A brief ScienceDaily news article discussing this journal article may be read online using this [link](#).

### **Human-Related Ignitions Increase the Number of Large Wildfires across U.S. Ecoregions (Journal article)**

*Fire, Vol 1, no 1, 2018*

Humans ignited four times as many large fires as lightning, and were the dominant source of large fires in the eastern and western U.S. (starting 92% and 65% of fires, respectively).

Read the journal article online at the [MDPI Fire link](#).

## **FIRE MANAGEMENT**

### **Defining Extreme Wildfire Events: Difficulties, Challenges, and Impacts (Journal article)**

*Fire, Vol 1, no 1, 2018*

Every year worldwide some extraordinary wildfires occur, overwhelming suppression capabilities, causing substantial damages, and often resulting in fatalities. Given their increasing frequency, there is a debate about how to address these wildfires with significant social impacts, but there is no agreement upon terminology to describe them. The concept of extreme wildfire event (EWE) has emerged to bring some coherence on this kind of events.

Read the journal article online at the [MDPI Fire link](#).

### **The Politically Possible and Wildland Fire Research (Journal article)**

*Fire, Vol 1, no 1, 2018*

state and local stakeholders before disasters even strike in order to shorten disaster recovery times.

Read the report online at the [FEMA link](#).

### **Pre-veterinary care for small animals (Magazine article)** *Fire & Rescue UK, 2<sup>nd</sup> Quarter, 2018*

Colorado firefighter Michael Davis has developed a pre-veterinary care training programme for small animals aimed at emergency responders. He provides essential advice on how to deal with common medical issues faced by furry victims after an incident.

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

### **Case Studies - Rob McNeil and Heather Stuart : Improving decision-making in complex multi-team environments project (Online talks)**

*BNHCRC, June 2018*

Assistant Commissioner Rob McNeil from Fire and Rescue NSW talks about his experiences of being deployed as a task force leader in the aftermath of the Fukushima tsunami and earthquake in 2011.

Heather Stuart from NSW SES discusses the benefits of organisational learning and her role as the lead end user for the emergency management capability cluster.

Please use this [BNHCRC link](#) to listen to their talks.

## **SEARCH AND RESCUE**

### **Rescue: extrication comment – the basics (Magazine article)**

*Fire & Rescue UK, 2<sup>nd</sup> Quarter, 2018*

Vehicles have evolved, rescue tools have improved, but what about rescue concepts and methodologies? F&R questions whether it is time for a refresh if rescuers are to meet the challenges of modern vehicle rescue.

Please contact the library to request a copy of this article

### **Preserving Victim Dignity While Protecting First Responders (UK Magazine article)**

*International Fire Fighter, Issue 58, June 2018*

Throughout the world each year, hundreds of first responders die or suffer serious injuries due to secondary accidents caused by distracted, impaired, or speeding drivers flying around an existing accident.

Please contact the library to request a copy of this article

### **The Team Approach To Vehicle Extrication: Time For Change (UK Magazine article)**

*International Fire Fighter, No 58, June 2018*

Often missing or underdeveloped in wildland fire research is a clear sense of the link between contemporaneous political possibility and the desired ecological or management outcomes. We examine the disconnect between desired outcomes and what we call the “politically possible”.

Read the journal article online at the [MDPI Fire link](#).

## FIREFIGHTING



**FRNSW Station Officer Bronnie Mackintosh**  
(Tedtalk)  
*TedXSydney 2018*

Bronnie Mackintosh is a station officer with Fire and Rescue NSW and has been a firefighter for 16 years. Her career has encompassed many roles, spanning general firefighting, rescue, operational communications, community safety, and education and training. Bronnie is a Winston Churchill Fellowship recipient. She travelled the world to research how international fire agencies are changing their workforces to be more reflective of the diverse communities they protect.

Please use this [Vimeo link](#) to listen to her talk.



[Summers of fire : a memoir of adventure, love and courage](#) (Book)

The author, Linda Strader, is one of the first women hired on a fire crew with the U.S. Forest Service. A naïve twenty-year-old in the mid-1970s, she discovers fighting wildfires is

challenging—but in a man's world, they became only one of the challenges she would face. Battling fire is exhilarating, yet exhausting; the discrimination real and sometimes in her face.

Please contact the library to borrow this book.

**Foam: PFAS catcher – a clean solution** (Magazine article)  
*Fire & Rescue UK, 2<sup>nd</sup> Quarter, 2018*

A biomaterial that transforms PFAS-contaminated water into discharge-grade water up to ten times faster than current technology is being developed at breakneck speed in London.

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

## FIRE BEHAVIOUR

**Determining the minimum sampling frequency for ground measurements of burn severity** (Journal article)

The team approach to vehicle extrication is nearly as old as I am, which begs the question: why has it never been revised?

Please contact the library to request a copy of this article



**The management of dead bodies in open water** (Journal article)

*Crisis Response Journal, May 2018*

Erik de Soir brings a more practical focus to this issue's water theme, by examining the retrieval, identification, investigation and family liaison required when a body is discovered in water.

Please contact the library to request a copy of this article



**Rollercoaster incident response, UK**  
(Journal article)

*Crisis Response Journal, May 2018*

In 2015, a rollercoaster incident in the UK left 16 riders trapped. Dale Harrison, who was in charge of the complex Fire and Rescue Service response, describes the incident at Alton Towers.

Please contact the library to request a copy of this article

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

## NATURAL ENVIRONMENT

**New research on avian response to wildfires**  
(*ScienceDaily news article*)

*Point Blue Conservation Science, June 2018*

New research explores the effects fire has on ecosystems and the wildlife species that inhabit them. Scientists examined the impacts of fires of different severity levels on birds and how that changes as the time since fire increases. Scientists looked across 10 fires after they burned through forests in the US Sierra Nevada. A key finding was that wildfire had strong, but varied, effects on the density of many of the bird species that were studied.

Please use the [ScienceDaily link](#) to read the news article online.

## LEADERSHIP AND MANAGEMENT

[Leadership secrets of the Australian army : learn from the best and inspire your team for great results](#) (Book)

*Nicholas Jans, 2018*

*International Journal of Wildland Fire Vol 27, no 6, June 2018*

Random and transect field sampling methods used for assessing burn severity are compared at 10 sites across Victoria, Australia. Transect sampling requires a sampling rate of 3.16% compared with 0.59% for random sampling. Also, sites smaller than 400 ha require a sampling rate 1.4–2.8 times that of sites larger than 400 ha.

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

## AVIATION AND DRONES



**Welcome to the drone age** (*Magazine issue*)  
*Time Magazine, Vol 191, no 22, June 2018*

A special issue on drones discussing how the flying technology is transforming our world, from changes in military strategy to lifesaving innovations in health care to creating new works of art.

*Please contact the library to request a copy of the articles from this issue. NSW RFS Staff may use this [EBSCO link](#) to access the articles at work*

## URBAN PLANNING

**Options for reducing house-losses during wildfires without clearing trees and shrubs** (*Journal article*)

*Landscape and Urban Planning, Vol 174, June 2018*

Removing vegetation close to houses is at the forefront of advice provided to home owners by fire management agencies. However, widespread clearing of trees and shrubs near houses impacts aesthetics, privacy, biodiversity, energy consumption and property values. Our findings represent options for regulators or home owners seeking to balance risk posed by wildfires with benefits associated with retaining trees and shrubs near houses.

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

## COMMUNITY ENGAGEMENT



[Australia reimagined : towards a more compassionate, less anxious society](#) (*Book*)

*Hugh Mackay, 2018*

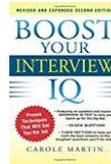
Twenty-five years ago, Hugh Mackay revolutionised Australian social analysis with the publication of Reinventing Australia. Now he takes another unflinching look at us and offers some compelling



Nicholas Jans identifies the distinctive egalitarian leadership principles behind the effectiveness of the Australian defence forces, and shows how they can be applied in any organisation at any level. Developed over

a century ago by fusing national values with battlefield imperatives, its approach has been fine-tuned over generations. It is now an adaptable and egalitarian leadership culture that ticks all the boxes for best practice. The military assumes no-one is born a natural leader, and that good training makes good leaders.  
*Please contact the library to borrow this book.*

## JOB APPLICATIONS



[Boost your interview IQ](#) (*Book*)

This second edition, helps you ace that big test with skill-building exercises, an in-depth “Interview IQ” test, and other resources to let you craft winning answers to the most important questions interviewers ask. In these pages, you’ll discover ways to present your experiences in a compelling narrative that showcases your skills, knowledge, and personality—and you’ll learn the right way to answer tricky “behavioural” questions.  
*Please contact the library to borrow this book.*



[Write a winning job application : a guide to responding to selection criteria](#) (*Book*)

An Australian publication, this sixth edition provides real and practical help in responding to selection criteria, preparing a targeted resume, writing a letter of application and presenting yourself confidently at an interview.

*Please contact the library to borrow this book.*

## MENTAL HEALTH

**When is stress a problem?** (*Journal article*)

*Crisis Response Journal, May 2018*

In this issue, Charlotte Copeland discusses how workplace stress and psychological trauma affect both individual and organisational resilience.

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

**Firing off questions** (*Video*)

*UK Hampshire Fire and Rescue Service, 2018*

proposals for a more compassionate and socially cohesive Australia. You might not agree with everything he suggests, but you'll find it hard to get some of his ideas out of your head.

*Please contact the library to borrow this book.*

### **The role of childcare providers in disasters (Journal article)**

*Crisis Response Journal, May 2018*

Recent disasters have highlighted the gaps in preparedness when it comes to children, according to Rita Burke, who announces a new, free video, to help childcare providers plan for emergencies

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



### **Identifying the experiences and needs of LGBTI communities before, during and after emergencies in Victoria (Online report)**

*Gender and Disaster Pod, 2018*

The Department of Premier and Cabinet (DPC) commissioned this research into the experiences and needs of LGBTI communities before, during and after emergencies in Victoria, Australia, as the particular experiences and potential contribution of LGBTI communities in emergencies have not traditionally been considered by the emergency management (EM) sector. This research is a sign of EM leaders' commitment to better understand and respond to the different needs of Victoria's increasingly diverse population.

*Please use the [G&D link](#) to read the report online.*

### **Ethical Use and Impact of Participatory Approaches to Research in Post-Disaster Environments: An Australian Bushfire Case Study (Journal article)**

*BioMed Research International, June 2018*

This paper presents a case study of Beyond Bushfires, a large, multisite, mixed method study of the psychosocial impacts of major bushfires in Victoria, Australia.

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

*NSW RFS Staff may use this [EBSCO link](#) to access the article at work*

## **METEOROLOGY AND CLIMATE CHANGE**



### **The future we don't want: how climate change could impact the world's greatest cities (Online report)**

*Urban Climate Change Research Network (UCCRN), 2018*



This five-minute film short – made inhouse - features Hampshire Fire and Rescue Service firefighters and officers talking about mental health,

exploding myths and attempting to remove the stigma. It shows pairs of people having honest conversations about their experiences and reflections, including people from all parts of the service from frontline firefighters and office personnel up to the Deputy Chief Fire Officer Andy Bowers.

*Please use this [HFRS link](#) to view the video online.*



### **Lifting the weight: understanding young people's mental health and service needs in regional and remote Australia (Online report)**

*ReachOut Australia, June 2018*

This report summarises research conducted by ReachOut Australia and Mission Australia on young people living in regional and remote Australia. The aim of the report is to gain a better understanding of young people's lives, including the benefits and challenges of living in regional and remote areas, the mental health of young people living in these areas, and their service needs.

*Please use the [APO link](#) to read the report online.*

## **HEALTH AND SAFETY**



### **Risk : why smart people have dumb accidents - and what we can learn from them (Book)**

*Steve Casner, 2018*

Based on years of research and understanding of human behaviour learnt as a research psychologist, Risk is the definitive user-guide to avoiding everyday calamity. It will help us understand why we behave in such contradictory ways – insisting on fat-free salad dressing but then texting while driving – and explain the psychological traps that can lead us to the scene of an accident. By showing us how and when injuries happen, we learn what we should really be worrying about.

*Please contact the library to borrow this book.*

### **Cancer prevention – get your kit off (Magazine article)**

*Fire & Rescue UK, 2<sup>nd</sup> Quarter, 2018*

Dermal absorption of toxic chemicals on PPE is elevating firefighters' risk of developing cancer, according to a new study from the University of Central Lancashire. F&R looks at research and initiatives from around the world and highlights the steps that can be taken to minimise this risk.

This report contains results from the data analysis of six major global urban vulnerabilities to climate change based on several key hazards, as well as case studies that present examples of how cities are responding to these challenges. Please use the [C40 Production link](#) to read the report online.

## LAND MANAGEMENT

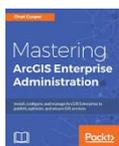
### Near real-time monitoring of post-fire erosion after storm events: a case study in Warrumbungle National Park, Australia (Journal article)

*International Journal of Wildland Fire Vol 27, no 6, June 2018*

Wildfires in national parks can lead to adverse impacts on the environment. This is especially pronounced if wildfires are followed by intense storms, such as the fire in Warrumbungle National Park in New South Wales, Australia, in early 2013. The aims of this study were to develop and validate a methodology to predict erosion risk at near real-time after storm events, and to provide timely information for erosion monitoring to assist park management.

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

## MAPPING AND GIS



### [Mastering ArcGIS Enterprise administration](#) (eBook)

Chad Cooper, 2018

This book will be geared toward senior GIS analysts, GIS managers, GIS administrators, DBAs, GIS architects, and GIS engineers that need to install, configure, and administer ArcGIS Enterprise 10.5.1. 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 or loan.

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

### Health monitoring – double risk (Magazine article)

*Fire & Rescue UK, 2<sup>nd</sup> Quarter, 2018*

A new Canadian study strongly recommends the creation of a firefighter wellness surveillance system to help address soaring cancer rates and other health risks.

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

### Fighting back on heat stress (Magazine article)

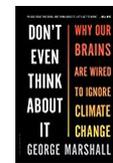
*International Fire Fighter, Issue 58, June 2018*

Research from studies such as Firefighter Fatalities and Injuries: The Role of Heat Stress and PPE (University of Illinois USA, 2008) have shown that more firefighters die in the line of duty from cardiac arrest than from any other cause. PPE manufacturers, designers and their suppliers, understand they have a vital role to play in developing protective clothing that keeps the body as cool as possible.

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

## GENERAL

### [Don't even think about it : why our brains are wired to ignore climate change](#) (Book)



Most of us recognise that climate change is real, and yet we do nothing to stop it. What is this psychological mechanism that allows us to know something is true but act as if it is not?

George Marshall's search for the answers brings him face-to-face with Nobel Prize-winning psychologists and the activists of the Texas Tea Party; the world's leading climate scientists and the people who denounce them; liberal environmentalists and conservative evangelicals.

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