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FIRE INCIDENTS – AUSTRALIAN



Australian Seasonal Bushfire Outlook: April 2020 (Hazard Note No. 71) BNHCRC, April 2020

The Australian Seasonal Bushfire Outlook reflects the priorities in each state and territory over the next three months and is used by fire authorities to make strategic decisions such as resource planning and prescribed fire management to reduce the negative impacts of bushfire.

Use this BNHCRC link to read the Hazard Note online.

Australian fires through the eyes of the United States (Magazine article)

Fire Australia, Issue 2 2020

The unprecedented scale of the recent bushfire season was met with an extraordinary number of international deployments. A group of US firefighters reflect on their time on the Australian fireground.

Please contact the library to request a copy of this article



Everyday humanitarianism during the 2019/2020 Australian bushfire crisis (Report) Social Innovation Research Institute (SUT), April 2020

In response to the 2019-2020 bushfire crisis, Australians engaged in an astounding level of

EMERGENCY MANAGEMENT



Natural Hazards and Disaster Justice : challenges for Australia and Its Neighbours (Book)

Anna Lukasiewicz, 2020

Written by multidisciplinary disaster researchers, this book explores policy, legal, and practice implications regarding the emerging field of disaster justice, using case studies of floods, bushfires, heatwaves, and earthquakes. It reveals locational and social disadvantage and structural inequities that lead to increased risk and vulnerability to disaster.

Please contact the library to request a loan of this book



The current issue of Australian Journal of Emergency Management is now available online, focusing on community-level engagement and the essential role communities play in reducing the effects of disasters.

The April issue can be downloaded here

National emergency and disaster response arrangements in Australia: a quick guide (Guide)

Parliamentary Library (Australia), April 2020

Each Australian state and territory has generic emergency and disaster response legislation which authorises officials

charitable giving and volunteering in order to help communities and wildlife affected by the devastating bushfires. It was also apparent that Australians bypassed charitable organisations and organised their own hyper-local, agile humanitarian responses to the crisis using the knowledge, skills and resources they had to hand. Most of these activities and initiatives were invisible to people outside the communities in which these responses were enacted.

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

Aboriginal peoples and the response to the 2019-2020 bushfires (Working paper)

Centre for Aboriginal Economic Policy Research, March 2020

The findings suggest that over 84 000 Indigenous people, or one-quarter of the Indigenous population of NSW and Victoria, live in the bushfire-affected area. Presenting a series of quotations from published accounts, the authors demonstrate that the Aboriginal experience of the 2019–2020 bushfires have been different from those of non-Indigenous Australians.

Use this [ANU link](#) to read the paper online.

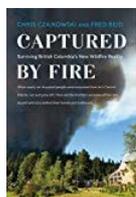
Calculating the losses this fire season (Magazine article)

Fire Australia, Issue 2 2020

The impact of natural hazards on the economy is complex and often overwhelming. The author Radhiya Fanham from BNHCRC looks at how the 2019-2020 bushfires were no different.

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FIRE INCIDENTS – INTERNATIONAL



[Captured by fire : surviving British Columbia's new wildfire reality \(Book\)](#)

Chris Czajkowski, 2019

In the summer of 2017, wildfires dominated the headlines in British Columbia. Over two hundred fires burned in the province and nearly ten thousand people received the instruction YOU MUST EVACUATE NOW. But not everyone left. Captured by Fire alternates between the dramatic first-person accounts of wilderness dweller Chris Czajkowski and homesteader Fred Reid, who both ignored the evacuation order and stayed to protect their properties, animals and livelihoods.

Please contact the library to request a loan of this book

to declare emergencies. The Australian Government Crisis Management Framework (AGCMF) is an overarching, decision-making framework designed to manage crises of all kinds. This guide explains these arrangements for the response phase, and identifies the various decision-making and advisory bodies.

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

Close Encounters: How Near Misses Influence Disaster Decision Making (Blog post)

US Natural Hazards Center, March 2020

Risk perception can be a fickle concept based on a number of personal factors, but research also shows the nature of that 'near miss' plays an important role, writes Robin Dillon-Merrill in this blog. His research shows that people who frame their disaster experience as a resilient near miss will be less likely to mitigate against impending hazards than people without this frame.

Use this [Hazards Colorado link](#) to read the blog online.



Floodlines : the story of an unnatural disaster (Podcasts)

Hosted by Vann R. Newkirk II, The Atlantic, 2020

This eight-part podcast series from The Atlantic uses the example of Hurricane Katrina to explore what happens when disasters are so far-reaching, they overwhelm our ability to respond.

Use this [The Atlantic link](#) to listen to the podcast series.



[Disaster response and recovery : strategies and tactics for resilience \(eBook and Book\)](#)

David A. McEntire, 2015

The eBook format of this title is now in our collection as well as the hardcopy. This 2nd edition provides an overview of the various types of disasters that may occur, the myriad of actors that are involved in emergency management, and the diverse theoretical frameworks from which post-disaster activities may be approached.

Please [contact the library](#) for a password-embedded link to our eBook collection or to borrow the hardcopy.

Short-Term Solutions to a Long-Term Challenge Rethinking Disaster Recovery Planning to Reduce Vulnerabilities and Inequities (Journal article)

International Journal of Environmental Research and Public Health, Vol 17, No 2, 2020

In the immediate aftermath of disaster, governments usually act quickly to reduce risk and to recover their communities' socio-economic functioning. Policy makers

Truth, trust and the ghosts of our fears: Chernobyl wildfires (Blog post)

Crisis Response, April 2020

Lina Kolesnikova examines why the recent wildfires near the Chernobyl nuclear reactor have led to old fears resurfacing. From April 4, fires have been burning across a large territory, including the 30-kilometre exclusion zone around the ghost nuclear plant and its radioactive waste site.

Use this [Crisis Response link](#) to read the blog post online.

FIREFIGHTING

Initial Attack in the Wildland Urban Interface (US Magazine article)

Fire Engineering, March 2020

The article discusses how the firefighters deal with the initial phase of catastrophic wildfires which are usually inside the wildland urban interface (WUI) in the U.S. Topics discussed include challenges facing firefighters due to incidents of wildfire inside the WUI, reports of wildfire-related fireground deaths among firefighters nationwide in 2018, and strategic options available for firefighters for the WUI environment.

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FIRE BEHAVIOUR

Effect of relative humidity on grassfire propagation (Report)

Bushfire and Natural Hazards CRC, April 2020

The relative humidity of air is directly related to fuel moisture. Fuel moisture is often considered as the index of flammability in the context of bushfires. Variation of relative humidity and fuel moisture is considered to have a significant effect on the rate of spread of grassfire propagation and fire intensity. In this study, two sets of grassfire simulations have been conducted: one set with 0.21m grass and another set with 0.175m grass.

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

PRESCRIBED BURNING

Prescribed burning in south-eastern Australia: history and future directions (Journal article)

Australian Forestry, Vol 83, no 1, 2020

in these situations need—but may not have the capacity or time for—substantial analysis and public debate about how to balance short- and long-term societal needs. Inadequate attention to this challenge may result in a deepening of the inequities that increase vulnerability to disaster impacts.

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



[Disaster by choice : how our actions turn natural hazards into catastrophes](#) (Book)

Ilan Kelman, 2020

"Wildfires sweep parts of California and many lose their lives and their homes. Haiti has yet to recover from the devastation of the 2010 earthquake, while work still continues to make safe the Fukushima nuclear plant in Japan, damaged badly by the tsunami of 2011. We point to the powerful forces of nature, but these disasters are not natural, argues Ilan Kelman. They are, to a large degree, created by human choices.

Please contact the library to request a loan of this book

LEADERSHIP AND MANAGEMENT

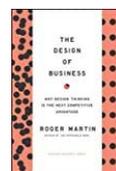


[Change by design : how design thinking transforms organizations and inspires innovation](#) (Book)

Tim Brown, 2019

The subject of "design thinking" is the rage at business schools, throughout corporations, and increasingly in the popular press--due in large part to work of IDEO, a leading design firm, and its celebrated CEO, Tim Brown, who uses this book to show how the techniques and strategies of design belong at every level of business.

Please contact the library to request a loan of this book



[The design of business : why design thinking is the next competitive advantage](#) (Book)

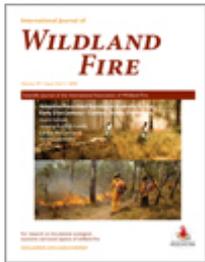
Roger Martin, 2009

Most companies today have innovation envy. They yearn to come up with a game-changing innovation like Apple's iPod, or create an entirely new category like Facebook. In "The Design of Business," Roger L. Martin offers a compelling and provocative answer: we rely far too exclusively on analytical thinking. To innovate and win, companies need design thinking.

Please contact the library to request a loan of this book

This study explores the history of fire in south-eastern Australia, describes the development of prescribed burning as a forest management tool, and discusses the factors that have influenced changes in fire regimes. There is compelling evidence for the greater use of prescribed burning to reduce wildfire risks and impacts, rather than committing increasing resources to wildfire suppression.

Please contact the library to request a copy of this article



Adaptive prescribed burning in Australia for the early 21st Century – context, status, challenges

*International Journal of Wildland Fire
Vol 29 no 4-5 2020*

This issue is a series of papers that does not address the merits or otherwise of prescribed burning – as we accept the

lessons from antiquity and recent history that the use of prescribed fire in contemporary Australia is essential for reducing, although not always being able to deliver on, wildfire risks and meeting a variety of societal and environmental needs. Instead this special issue focuses on several fundamental adaptive management and monitoring questions.

A list of the contents is available using this [CSIRO link](#).

Please contact the library to request any of the articles listed in the journal.

To burn or not to burn is not the question (Magazine article)

Fire Australia Issue 2 2020

The debate around prescribed burning is ongoing and as heated as ever. Daniel May suggests that the practice is an effective tool rather than a cure-all.

Please contact the library to request a copy of this article

AVIATION AND DRONES



The latest issue of **Unmanned Systems Technology** is out. Published bimonthly, this magazine focuses on innovative engineering in the realm of unmanned vehicles, both in sea and air.

Issue 31 is available online [here](#).

If you would like to receive an email alert when the latest issue has been published please [contact the library](#).

NATURAL ENVIRONMENT



[Are we there yet? : the digital transformation of government and the public sector in Australia \(Book\)](#)

Martin Stewart-Weeks, 2019

Packed full of insights from government and digital leaders from around Australia and across the world, this is a much-needed practical guide contains insights and ideas about the way digital technologies, and their associated tools, platforms, and cultures are changing the business of governing.

Please contact the library to request a loan of this book

Inspiration vs. Intimidation: Which Type of Leader Will You Be? (US Magazine article)

Fire Engineering, March 2020

The author, Frank Viscuso, discusses the concept of inspiration and intimidation and their application in the area of organisational leadership. Topics covered include examples of workplace intimidation such as verbal abuse, threats and unjust criticism, impact on the employees' self-esteem and ability to fulfil tasks, and the characteristics of a strong leader.

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

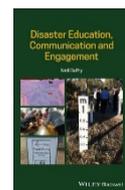
*The library also holds Frank Viscuso's books *Step up your Teamwork* and *Step Up and Lead*, both available for loan.*

COMMUNITY ENGAGEMENT AND RESILIENCE

[Disaster education, communication and engagement](#)

(eBook)

Neil Duffy, 2020



Australian author, Neil Duffy, provides an evidence-based guide for designing effective disaster learning plans and programs, outlining the steps to take in order to tailor a disaster education, communication and engagement program and highlighting illustrative examples of effective programs and activities from around the world.

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[The relationship is the project : working with communities \(Book\)](#)

Jade Lillie, 2020

What's ethical (and possible) when working with communities? How do we understand 'best practice' models when collaborating with people on important social, cultural and political issues? With twenty pieces commissioned from cultural



[Alliances in the Anthropocene : fire, plants, and people](#) (eBook and Book)

Christine Eriksen, 2020

In the current time of dramatic environmental transformation, the authors examine how human impacts on the planet are being felt at all levels. Christine conducted a series of narrative interviews with bushfire survivors between 2008 and 2018. The chapters display the imagined and actual agency of plants and people within a changing climate -- from Aboriginal ecocultural burning to nuclear fire.

Please [contact the library](#) for a password-embedded link to our eBook collection or to borrow the hardcopy.

LAND MANAGEMENT

Recent Australian wildfires made worse by logging

(ScienceDaily News article)

University of Queensland, 5 May 2020

Logging of native forests increases the risk and severity of fire and likely had a profound effect on the recent, catastrophic Australian bushfires, according to new research. In the wake of the country's worst forest fires in recorded history, researchers have been investigating Australia's historical and contemporary land-use.

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



[Community-based control of invasive species](#) (eBook and Book)

CSIRO Publishing, 2019

Invasive species are among the greatest challenges to environmental sustainability and agricultural productivity in the world.

Now available as an eBook, this book examines questions including, 'how can citizens be engaged in voluntarily managing invasive species?', 'what communication strategies will ensure good motivation and coordination?' and 'how can governing bodies support citizens in their efforts?'

Please [contact the library](#) for a password-embedded link to our eBook collection or to borrow the hardcopy.

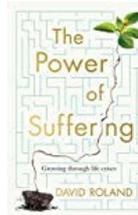
BUILDING

How much does it really cost to build homes that will survive bushfire? (Magazine article)

Fire Australia Issue 2 2020

leaders and thinkers from the arts, cultural and community sectors, this book is a must-read for anyone interested in contemporary community-engaged practice. Please [contact the library](#) to request a loan of this book

MENTAL HEALTH & INCIDENT STRESS



[The power of suffering : growing through life crises](#) (Book)

David Roland, 2020

When our world is turned upside down, what does it do to us, how do we survive it, and, most importantly, how can we grow as a result? David takes the lived experience of

eleven incredible people and follows them along each step of their journey from crisis through to acceptance and triumph.

Please [contact the library](#) to request a loan of this book

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

HEALTH AND SAFETY

Unprecedented smoke-related health burden associated with the 2019–20 bushfires in eastern Australia

(Research letter)

Medical Journal of Australia, 23 March 2020

Using standard methods for assessing the health impact of air pollution, the authors estimated the numbers of excess deaths, hospitalisations for cardiovascular and respiratory problems, and emergency department presentations with asthma in NSW, Queensland, the ACT and Victoria between 1 October 2019 and 10 February 2020 that could be attributed to bushfire smoke exposure.

Use this [MJA link](#) to read the research letter online.

Health impacts of bushfire smoke exposure in Australia (Journal article)

Respirology, Vol 25, no 5 March 2020

Smoke exposure from bushfires, such as those experienced in Australia during 2019–2020, can reach levels up to 10 times those deemed hazardous. Short-term and extended exposure to high levels of air pollution can be associated with adverse health effects, although the most recent fires have brought into sharp focus that several important knowledge gaps remain.

A new West Australian study, Project BAL Build, has sought to address the misinformation and confusion about the cost of building bushfire-resistant houses. *Please contact the library to request a copy of this article*

Saving energy and lives: How a solar chimney can boost fire safety (*ScienceDaily News article*)
RMIT University, 5 May 2020
Built as part of the sustainable features of a new Australian building, the specially-designed solar chimney radically boosts safe evacuation time in a fire - from 2 minutes to over 14 minutes.
Use this [ScienceDaily link](#) to read the news article online.

GENERAL



[How charts lie : getting smarter about visual information](#) (Book)

Alberto Cairo, 2019

Social media has made charts, infographics, and diagrams ubiquitous--and easier to share than ever. While such visualisations can better inform us, they can also deceive by displaying incomplete or inaccurate data, suggesting misleading patterns-- or simply misinform us by being poorly designed

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Hot, Tired and Hungry: The Snacking Behaviour and Food Cravings of Firefighters during Multi-Day Simulated Wildfire Suppression (*Journal article*)

Nutrients, Vol 12 no 4, April 2020

Firefighters are exposed to numerous stressors during wildfire suppression, including working in hot temperatures and sleep restricted conditions. Australian research has shown that when sleep restricted, individuals choose foods higher in carbohydrates, fat, and sugar, and have increased cravings for calorie dense foods.

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

LEARNING AND DEVELOPMENT



[Fundamental Issues in Defense Training and Simulation](#) (Book)

George Galanis, 2013

Defence forces have always invested a great deal of their resources in training. This edited collection provides brief, easy-to-understand summaries of the key issues in defence training and simulation. The contributions are written by leading scholars from military research institutions in the US, UK, Canada, Australia and New Zealand, as well as selected researchers from academic and private sector research institutions.

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