Youth misuse of fire is a multifaceted, complex, and dangerous phenomenon. In response to this problem, Fire and Rescue NSW and Juvenile Justice NSW established a memorandum of understanding to facilitate firefighter involvement in the provision of fire safety education during Youth Justice Conferencing for young people who commit fire-related offences. Despite being used for over a decade, conferencing for youth misuse of fire is yet to attract theoretical analysis or empirical investigation. To partially fill this void, a theoretical analysis of Youth Justice Conferencing for youth misuse of fire was conducted. Comparative analysis revealed that child-centred disaster risk reduction offers a scaffold to explain and justify the mechanisms operating in Youth Justice Conferencing for youth misuse of fire. This theoretical alignment has implications for both Youth Justice Conferencing and child-centred disaster risk reduction.

Youth Justice Conferencing for youth misuse of fire: a child-centred disaster risk reduction mechanism

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Introduction
Youth misuse of fire (YMF) refers to any illegitimate use of fire or incendiary materials by a person under the age of 18 years (Pooley & Ferguson 2015). YMF is a multifaceted problem concerning a highly complex and heterogeneous population (Martin et al. 2004). The behaviour is difficult to predict and unlikely to be deterred by punishment alone (Houvouras & Harvey 2014). As a result, reduction of YMF relies heavily on prevention (McDonald 2010) and is increasingly becoming the responsibility of fire services (Haines et al. 2006). In response to this problem, Fire and Rescue NSW (FRNSW) and Juvenile Justice NSW established a memorandum of understanding to facilitate firefighter involvement in Youth Justice Conferencing convened for young people who have committed a fire-related offence. The aim of this paper is to document a theoretical analysis of an empirical investigation of the situation. First, the scope of the YMF problem in Australia, and New South Wales, is presented. One response to the problem is briefly described. The method employed to conduct a theoretical analysis of this response is outlined, followed by an overview of child-centred disaster risk reduction (CCDRR) and Youth Justice Conferencing for YMF. The discussion reveals that CCDRR and conferencing for YMF are theoretically aligned and that CCDRR provides a scaffold that explains and justifies the mechanisms operating in Youth Justice Conferencing for YMF.

The scope of YMF
Existing literature relating to YMF has predominantly emerged from the United States and United Kingdom. However, there is a growing body of knowledge from Australia and, more specifically, from NSW. The Australian Institute of Criminology (2005) estimated that three-quarters of all deliberately lit fires were attributed to young people. Muller (2008) conducted an analysis of official arson statistics between 2001 and 2006, which revealed that 23 per cent of all arson defendants in NSW were under the age of 17 years. Bryant (2008) conducted an investigation into 280,000 vegetation fires attended by 18 fire agencies throughout Australia over a five-year period.
Based on secondary data maintained by fire services, Bryant (2008) found 24 per cent of vegetation fires were attributed to young people. In the same study, Bryant (2008) conducted an analysis of data derived from NSW fire services between 1997 and 2002. Bryant (2008) found that non-deliberate fires attributed to young people accounted for between 0.4 and 16 per cent of all vegetation fires. These fires peaked during the summer holiday season. In fact, the highest recorded number of fires in NSW attributed to young people occurred during the 2001-2002 bushfire crisis, now widely referred to as ‘Black Christmas’ (Bryant 2008). Although this study only included non-deliberate vegetation fires attributed to young people, the data highlights the significant number of vegetation fires for which young people were responsible and the heightened risks involved when these fires were lit during conditions conducive to fire spread.

These findings should be considered with caution despite providing insight into the scope of the YMF problem. Evidence suggests that:
- fires are only responded to or investigated when they cause personal or property damage (Tomison 2010)
- of fires responded to or investigated, a high proportion categorised as ‘cause unknown’ are likely to be the product of YMF (Bryant & Willis 2006)
- fires that occur outdoors are reported more often than fires that occur indoors (Corcoran et al. 2007)
- around half of all indoor fires occur as a result of YMF (Lowenstein 2003).

Misuse of fire by young people is regarded as a covert behaviour that is difficult to detect and empirically investigate.

Although the true prevalence of YMF is undetermined, the risks associated with the behaviour are high. In 2011-2012, estimates reveal there were 44,925 incidents of arson nation-wide, costing approximately $2.3 billion (Smith et al. 2014). The NSW Bureau of Transport Economics (2001) found that between 1967 and 1999, bushfires accounted for over half (57 per cent) of the total injuries caused by natural disasters in Australia. Ronan and Towers (2014) point out that structure-fire fatalities occur at seven times the rate of bushfire fatalities. An incident outcome analysis of YMF recorded by FRNSW and the NSW Rural Fire Service revealed that, as a result of the 26,380 instances of YMF committed between July 2004 and June 2014 in NSW, 4097 people were evacuated, 414 suffered injury, 43 required rescue and 10 fatalities occurred (Pooley 2015). These statistics provide an indication of the risks associated with YMF. However, a recent study conducted in Sweden found single data sources, such as fire service data or police data, under-report fire injuries and fatalities by approximately 20 per cent (Jonsson, Bergqvist & Andersson 2015). YMF is thus conceivably more problematic than existing literature indicates.

The response to YMF

In response to the YMF problem in NSW, FRNSW and Juvenile Justice NSW signed a Memorandum of Understanding (MoU) in 2006. This MoU emerged out of a mutual, legislative obligation to reduce misuse of fire by young people in NSW. FRNSW is one of two primary response agencies for fire in NSW. The organisation’s purpose and functions are governed by the Fire Brigades Act 1989 (NSW). Section 6(1) indicates that it is the duty of the Commissioner to take all reasonable measures for the prevention and suppression of fire. This provision places a legislative obligation on FRNSW to prevent YMF.

Juvenile Justice NSW is the primary response agency for youth delinquency and crime in NSW. Juvenile Justice NSW works to prevent and reduce crime and recidivism by building safe and resilient communities and diverting people from the criminal justice system (NSW Government 2015). Juvenile Justice NSW is obligated to prevent YMF that meets the threshold of criminalisation and to divert young people away from criminal justice intervention where appropriate.

The MoU (2016) governs firefighter participation in Youth Justice Conferencing convened for young people who commit fire-related offences. The MoU states that a firefighter will attend conferencing in the role of a participant and will:
- provide fire safety education to the young person
- suggest fire-safety-related tasks to include within the young person’s outcome plan
- monitor relevant components of the outcome plan to determine compliance and completion.

This collaboration helps to educate the young person about the consequences of misuse of fire and teach them safe fire practices.

Method

Youth Justice Conferencing for YMF has operated for over 10 years but has not undergone theoretical analysis or empirical investigation. To partially fill this void, theoretical analysis of Youth Justice Conferencing for YMF was undertaken to explain and justify the mechanisms operating within the program. Data included existing literature and documentation. Data was collected from major criminal and public policy databases, the Australasian Legal Information Institute, Hansard, the Juvenile Justice NSW and FRNSW websites, Google and Trove searches. Juvenile Justice NSW and FRNSW internal documentation were accessed. Data was summarised and comparatively analysed to identify commonalities and inconsistencies. Comparative analysis revealed theoretical alignment. This has implications for both Youth Justice Conferencing for YMF and CCDRR.
Child-centred disaster risk reduction

Risk reduction refers to measures that mitigate the frequency or intensity of losses (International Risk Management Institute 2016). Disaster risk reduction narrows this scope, referring to systematic efforts to analyse and reduce the causal factors of disasters associated with natural and man-made hazards (United Nations Office for Disaster Risk Reduction 2016). Conferencing involves bringing a range of the offence and its implications for the future’ (Marshall 1996, p. 37). Conferencing involves bringing and the community understand risk and are able to participate in mitigating risk (Towers et al. 2014).

CCDRR is a relatively new concept, yet the body of knowledge has grown considerably in recent years (Ronan et al. 2016). The three main pillars of disaster risk reduction, and thus CCDRR, are:

- prevention and mitigation
- preparedness

The importance of this comprehensive and integrated approach was highlighted in the Yokohama Message in 1994 (International Decade for Natural Disaster Reduction 1994). Since that time education programs have been increasingly used around the world to prepare children and young people for disasters associated with natural and man-made hazards, to prevent or mitigate the risks and consequences associated with these hazards, and to enhance response and recovery by engendering resilience (Ronan & Towers 2014). Such programs have been found to improve preparedness, perception of risk, awareness of appropriate safety behaviours and resilience (Ronan & Towers 2014).

Youth Justice Conferencing for YMF

Youth Justice Conferencing is one of three graduated sanctions legislated under the Young Offenders Act 1997 (NSW). The juvenile justice mechanism helps divert young offenders away from state intervention and future criminal behaviour. Youth Justice Conferencing is based on the philosophy of restorative justice (Parliament of NSW Legislative Assembly June 22 2002, p. 7446). Restorative justice is ‘a process whereby all the parties with a stake in a particular offence come together to resolve collectively how to deal with the aftermath of the offence and its implications for the future’ (Marshall 1996, p. 37). Conferencing involves bringing a young offender and their support group face-to-face with their victim(s) or their representative(s), and their support group (s47 Young Offenders Act 1997 [NSW]).

The purpose of conferencing is to create and implement an outcome plan for the young person to complete. Outcome plans for bush fire/arson juvenile offenders must include a fire safety education component, assistance in clean-up operations or the treatment of injured animals, and payment of compensation (s8 Young Offenders Regulation 2016 [NSW]).

Conferencing for YMF as a CCDRR mechanism

Conferencing for YMF can be positioned as a CCDRR mechanism. Firefighter participation in conferencing in NSW is administered by the FRNSW Community Safety Directorate. The objective of the Directorate is to manage, on and off an incident ground, through risk management within strategic policy, management responsibilities and operational functions (FRNSW 2016). One mechanism implemented to reduce risk, improve safety and protect the community is conferencing for YMF (FRNSW 2016). Where CCDRR manages risk associated with man-made hazards like YMF (and conferencing for YMF aims to manage risk), the program can be strategically positioned as a CCDRR mechanism.

The applicability of CCDRR to conferencing is supported through a mutual aspiration to attain Article 6 Convention on the Rights of the Child that proposes the State has an obligation to ensure the survival and development of young people (United Nations 1989). CCDRR uses a multidisciplinary approach and draws from the fields of health, urban planning, public policy, education and emergency management within government and non-government realms (Tatebe & Mutch 2015). In line with this approach, conferencing for YMF is facilitated by two arms of state government; FRNSW and Juvenile Justice NSW. Both organisations have legislative obligations to prevent YMF from occurring. In addition, conferencing brings stakeholders of YMF together. These stakeholders include the offender and their support group, the victim(s) and their support group, a firefighter, and other members of the community affected by the offence (s47 Young Offenders Act 1997 [NSW]). Conferencing for YMF thus involves state government intervention alongside community participation to provide fire safety education to young people and their families.

CCDRR prioritises the education and agency of young people (Plan International 2010). Plan International developed a toolkit for CCDRR that describes best practice as that which unpacks risk, making it visible and transparent, so that young people have the capacity to make informed decisions about how much risk to accept and how it can be managed. Ronan and Towers (2014, p. 1) suggest that CCDRR helps young people ‘connect the physical world and science with the social world and human factors’. Conferencing for YMF theoretically attains this benchmark. It provides young people with access to knowledge and information through fire safety education that unpacks and makes transparent the risks...
of YMF. Fire safety education provided by firefighters in the context of conferencing helps to manage risk by:

- providing fire safety advice to young people and their families to improve preparedness
- informing young people about the consequences of their behaviour that has implications for response and recovery
- reducing the likelihood of reoffending and, thus, preventing and mitigating the risk of YMF.

Fire safety education provides young people with the knowledge to make informed decisions about safe fire behaviour and how fire risk can be managed.

CCDRR promotes the participation of young people in understanding and managing the risks associated with disasters. This tenet aligns with Article 12 Convention on the Rights of the Child that states a young person has the right to express their opinion and to have that opinion taken into account in any matter or procedure affecting them (United Nations 1989). Conferencing for YMF is led by an adult who mediates discussion between all participants (s60 Young Offenders Act 1997 (NSW)). Although conferencing for YMF is an adult-initiated and mediated program, decision-making is shared with young people. In fact, young people maintain the right to reject the whole, or any part, of their outcome plan regardless of the views of other conference participants (s52(4) Young Offenders Act 1997 (NSW)). This power of veto gives young people the right to express their opinion and have that opinion taken into account. Further, outcome plans are an obligatory component of conferencing as they provide the mechanism through which young people repair harm caused by their offence and mitigate the likelihood of similar harm occurring in the future. Outcome plans provide a process through which young people can take direct action to reduce the risks associated with their own YMF. As a CCDRR program, conferencing for YMF is an adult-initiated mechanism which vests decision-making power in young people. It aligns with the sixth rung on Hart’s (1992) ladder of participation and is an example of what Hart described as true child participation.

The theoretical alignment of CCDRR and conferencing for YMF is supported by shared respect. The CCDRR Toolkit (Plan International 2010) states that the views of children and young people should be respected to ensure full participation and engagement with CCDRR programs. This reliance on respect is shared by conferencing for YMF. One aim of conferencing for YMF is to disapprove of offending behaviour within a culture of respect without disapproving of, or punishing, the young offender (Harris 2001). The role of conference participants is to support the young offender through the conferencing process, to elicit shame associated with the offending behaviour, not the self (Harris 2001). Both CCDRR and conferencing for YMF enable the sharing of young people’s opinions and perspectives alongside mutual respect between young people and other participants.


### Democratic outcomes

Democratic outcomes include citizenship change where young people become aware of their rights and use this power to participate in decision-making processes, and institutional or systems change, where young people are involved in the process of decision-making and are accountable for disaster management. Democratic processes that give young people the power to create opportunities are used within conferencing for YMF to achieve democratic outcomes. Young people must give voluntary consent to participate in conferencing (s36 Young Offenders Act 1997 [NSW]). If young people decide to participate, they are actively involved in the decision-making process of their outcome plan. Young people make suggestions as to the type of tasks they can complete to make reparation for their behaviour. While other conference participants also engage in this process, the young offender maintains the right to veto components or the entirety of the plan (s52(4) Young Offenders Act 1997 [NSW]). If vetoed, all or any component of the outcome plan may be re-negotiated until agreement is reached. These consultative processes allow young people to be involved in decision-making processes and to negotiate outcomes. However, the opportunity to engage in conferencing only arises as an alternative to more punitive options. Voluntariness is therefore constrained as the decision to participate is influenced by the ramifications associated with non-participation (referral back to police or the court). Further, gatekeepers, such as police and the courts, are vested with the power of discretion to determine which individuals are granted access to conferencing. Although this discretion is bounded by legislation that specifies that offences must not involve sexual, serious drug or traffic offences, or one involving the death of a person (s8 Young Offenders Act 1997 [NSW]), there exists evidence to suggest discretion may be applied differentially by gatekeepers (Murphy et al. 2010). Conferencing for YMF is therefore limited in its capacity to attain CCDRR principles because access to democratic and consultative processes is mediated by legislation and gatekeeper discretion. Nevertheless, when considered in the criminal justice context, conferencing for YMF is the only mechanism in NSW that gives young people the power to decide whether or not to participate, and a voice to negotiate outcomes. Conferencing for YMF is the most voluntary, democratic, and consultative of the juvenile justice mechanisms available in NSW.

### Developmental outcomes

Developmental outcomes include capacity change as a result of increased knowledge, skills and abilities gained through education, training or workshops, and wellbeing change as a result of changes related to risk reduction (Plan International 2010, p. 74). One of the main principles of conferencing is to promote the development of young people by providing the impetus for capacity and wellbeing change (s34 Young Offenders Act 1997 [NSW]). In accordance with s8 Young Offenders Regulation...
behaviours in young people. Although further theoretical and empirical inquiry is required to evaluate conferencing for YMF as a CCDRR mechanism, this analysis provides a theoretical foundation upon which further investigation may transpire.

**Acknowledgements**

This PhD research is supported by the Bushfire and Natural Hazards Cooperative Research Centre. The author would like to acknowledge Juvenile Justice New South Wales and Fire and Rescue New South Wales for supporting this research. The views expressed herein do not necessarily represent any official views of Juvenile Justice New South Wales or Fire and Rescue New South Wales.

**Conflict of Interest**

The author is a full-time firefighter with Fire and Rescue NSW. The author’s PhD research involves the collection of data from Fire and Rescue NSW. The author’s employment is not a requirement of, and has no bearing on, the conduct of the research, nor does the research require, or have a bearing on, the author’s employment. This potential personal conflict of interest was made transparent throughout the ethics process to the Queensland University of Technology Human Research Ethics Committee, Juvenile Justice NSW and Fire and Rescue NSW. The relationship was deemed to have no bearing on the ethical conduct of the research.

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