

JOINT CENTRE FOR DISASTER RESEARCH  
OUR NEWS



Happy  Holidays!

*The team at the Joint Centre for Disaster Research would like to wish everyone a wonderful holiday season and a happy New Year!*

It's hard to believe that 2017 is coming to an end already. We have had a wonderful year working with students and other partners in the Emergency Management space.

We are looking forward to working on some new projects in 2018 but in the meantime we thought we would share some of the things that have been happening over this past year.

## WHAT'S BEEN HAPPENING

### *Congratulations!*



We wish to congratulate Dr Christine Kenney on her successful application for a Royal Society of New Zealand Marsden Fund grant.

Christine received a Fast-Start grant of \$300,000 to develop an integrated framework that incorporates Māori attributes into emergency management.

[Read more about the project here](#)



We also wish to congratulate Dr Denise Blake who is part of a team who received a Marsden grant for a project entitled "*Whāngai and the adoption of Māori: healing the past, transforming the future*". The project sits with Te Wānanga o Raukawa.

Denise has also recently become a permanent lecturer in the School of Psychology where she will continue with her teaching and research roles with JCDR, as well as teaching 175.317 Health Psychology.

[See Denise's staff profile here](#)



Congratulations to PhD student Marion Tan, who won the Lightning Talks audience choice award at the QuakeCoRE annual meeting.

Her topic was 'Usability of disaster apps: insights from the app markets', and she is currently conducting a survey, gathering information on users' perceptions of usability when using disaster apps.

[Take part here](#)



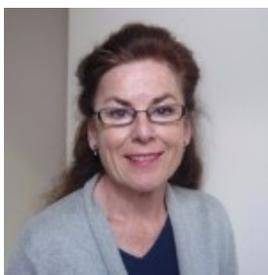
***Welcome!***

We would also like to welcome Julia Lyford to the JCDR as our new part-time Communications Coordinator.

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## Our PhD Graduates

2017 has been a great year for our PhD students and we have had the pleasure of seeing some of them complete their work this year.



## Dr Maureen Mooney

**Thesis** - *Getting through: Children and youth post-disaster effective coping and adaptation in the context of the Canterbury earthquakes 2010-2012*

Maureen analysed children's experiences of the Canterbury earthquakes to determine how they cope with natural disasters.

The research concluded that exposure to earthquakes appears to make many children in Christchurch more resistant to other pressures in life compared to children coping with the usual challenges of growing up.

[Read more here](#)



## Dr Sara McBride

**Thesis** – *The Canterbury Tales: An insider's lessons and reflections from the Canterbury Earthquake Sequence to inform better public communications models.*

Sara's PhD is in Media Studies and her thesis explores how communicators and emergency managers can develop better ways of engaging with their communities to encourage preparedness and resilience.

[Read more here](#)



## Karlene Tipler

**Thesis** – *Emergency preparedness and response in New Zealand Schools*

Karlene is investigating current emergency preparedness and response activities, as well as emergency management expectations in New Zealand schools.

[Read more here](#)

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## World Meteorological Organization Science Summit



Joint Centre for Disaster Research director, David Johnston, presented his research at the WMO Science Summit in Geneva this year.

His keynote speech focused on improved weather forecasts and warnings through enhancing partnerships across the science, policy and practice communities.

The Science Summit, organised by WMO, aims to build closer collaboration between weather, climate, water and environment research. They are also focused on closing the gap between research and the derived social benefits.

Find out more [here](#).

**Watch a video of the summit here**



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## PaCE Short Courses

This year, the JCDR has helped to facilitate and coordinate a number of short courses through Massey's [Centre for Professional and Continuing Education](#) (PaCE).

The courses were hugely successful and the JCDR is already working with PaCE on courses for 2018.

Check out some of our courses below:

### *Emergency Management Controllers Development Programme*



**Aim:** to meet capability needs of Emergency Management Controllers and to improve responses to significant emergencies that New Zealand currently faces.

Set up in 2014 by the Ministry of Civil Defence and Emergency Management (MCDEM) and the JCDR, the programme has successfully trained 100 Emergency Management Controllers from across New Zealand's regional councils, Emergency Management agencies and Civil Defence officials.

### *Emergency Management in the Health Sector* *July - November 2017*

**Aim:** to develop the capacity of those in the health sector to lead and manage health organisations during major incidents and disasters.

### *Development programme for WREMO Response Managers* *26 June - 29 August 2017*

**Aim:** to build knowledge, competence and confidence in personnel assigned to Response Manager positions at [WREMO](#).

The programme consisted of three 20 day blended learning workshops held at the Ministry of Health in Wellington.

The course was offered by the JCDR as a Massey University online course and then followed up by practical workshops over six weeks.

The workshops were split into three focus areas:

This course is now available for Response Managers across New Zealand.

- Risk Reduction and Readiness
- Response
- Recovery

[For more information, click here](#)

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## OUR RESEARCH

### **East Coast LAB - Kura e Tai Āniwhaniwha**

The JCDR is currently working with East Coast LAB to develop and evaluate culturally appropriate tsunami risk reduction activities for kura in the Hawke's Bay. This work is being led by Lucy Carter from the Joint Centre for Disaster Research and Kate Boersen, Project Coordinator for East Coast LAB.

The project has so far held two hui with two schools in Napier, with more workshops to be held next year.

[For more information, click here](#)



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### **High Impact Weather Project – A 10 year research project**

The HIWeather project aims to promote cooperative international research to achieve a dramatic increase in resilience to high impact weather worldwide. It aims to achieve this

through improving forecasts for timescales of minutes to two weeks, and enhancing their communication and utility in social, economic and environmental applications.

For more information, [click here](#)

## HIWeather New Zealand Workshop



The first workshop for HIWeather New Zealand was held in Dunedin on the 14th November during the NZ Meteorological Society conference. It was conducted by Sally Potter and David Johnston, and was well attended by participants from a variety of weather- and climate-related organisations and disciplines, and Civil Defence Emergency Management.

The workshop discussed activities being conducted in New Zealand and how they relate to the HIWeather programme, how New Zealand can link to HIWeather and what HIWeather can provide for New Zealand, as well as ways forward for HIWeather NZ.

For more information, please contact Sally Potter.

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## 100 Resilient Cities Initiative



The [100 Resilient Cities](#) Initiative is dedicated to helping cities around the world become more resilient to the physical, social and economic challenges that are a growing part of the 21st century.

Dr Tom Huggins of the JCDR was involved in a collaborative project between the Municipal Government of Colima City - Mexico, the University of Colima and Mexican NGO Machilia that collected data to inform Colima City's resilient city initiative.

The project held a series of 3D mapping workshops in August and September, engaging locals in developing urban resilience. They provided valuable data for the capital's comprehensive resilience strategy which has already led to a greater focus on security, infrastructure and government services and transport. The success of the project has also led to it being used as an example for citizen engagement in reforming urban planning at a municipal level throughout Mexico.

[Read more here](#)

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## WHAT'S COMING UP

### Summer Institute 2018



The Emergency Management Summer Institute is a five-day programme held annually in March at the JCDR in Wellington.

The programme offers an introduction to topics relating to emergency management including:

- Emergency management planning
- Developing effective all-hazard warning systems
- The role of public education, community engagement and public participation in building resilient communities
- Welfare and community well-being.

[Click here for enrolment and enquiries](#)



Dr Raj Prasana, of the JCDR, will co-chair at the inaugural ISCRAM Asia Pacific regional conference next year here in Wellington.

The conference is an opportunity to gain an excellent appreciation of New Zealand's crisis information management research and practice, and learn invaluable lessons on what to do (or not do) that may apply to your own country.

Register your interest here

## RECENT PUBLICATIONS

Allen, R., Cochran, E. S., **Huggins, T.**, Miles, S., Otegui, D. (2017). Quake warnings, seismic culture. *Science*, 358, 1111. DOI: 10.1126/science.aar4640

**Blake, D.**, Marlowe, J., **Johnston, D.** (2017). Get prepared: Discourse for the privileged? *International Journal of Disaster Risk Reduction*. 25, 283-288.

<http://www.sciencedirect.com/science/article/pii/S221242091730242X?>

Bosshard-Stadlin, S.A., Mattsson, H.B., **Stewart, C.** and Reusser, E. (2017) Leaching of lava and tephra from the Oldoinyo Lengai volcano (Tanzania): remobilisation of fluorine and other potentially toxic elements into surface waters of the Gregory Rift. *Journal of Volcanology and Geothermal Research* 332, 14-25. <http://dx.doi.org/10.1016/j.jvolgeores.2017.01.009>

(Available open access at this link until 8 April 2017: <https://authors.elsevier.com/a/1UZzS1LkU3Ga7L>)

Deligne, N.I, Fitzgerald, R.H, Blake D.M, Davies A.J., Hayes J.L., **Stewart C.**, Wilson G., Wilson T.M, Castellino R., Kennedy B.M, Muspratt S., Woods R. (2017). Investigating the consequences of urban volcanism using a scenario approach I: Development and application of a hypothetical eruption in the Auckland Volcanic Field, New Zealand . *Journal of Volcanology and Geothermal Research*, 336 192–208.

<http://www.sciencedirect.com/science/article/pii/S0377027316304085>

**Doyle, E.E.H.**, Paton, D. (2017) Decision-Making: preventing miscommunication and creating shared meaning between stakeholders. *Advances in Volcanology*. 1-22. DOI: 10.1007/11157\_2016\_31

[https://link.springer.com/chapter/10.1007/11157\\_2016\\_31](https://link.springer.com/chapter/10.1007/11157_2016_31)

**Rovins, J.** (2017). A Wicked Problem: Making DRR and CCA work for resilience. In D. Paton and **D.M. Johnston** (Eds). *Disaster Resilience: An integrated approach* (2nd Ed). Springfield, Ill., Charles C. Thomas. 384- 390

**Huggins, T. J.**, Larios, Y., Aguayo, S. (2017). *Consulta por mapeo participativo: Reporte final*. Colima, Mexico: Centro Machilia.

**Tipler, K.S.**, Tarrant, R.A., **Johnston, D.M.**, Tuffin, K.F. (2017). Are you ready? Emergency

preparedness in New Zealand schools. International Journal of Disaster Risk Reduction. 25, 324-333.  
<http://www.sciencedirect.com/science/article/pii/S221242091730273X?via%3Dihub>

Wei, H-L., Wu, H-C., Lindell, M.K., Prater, C.S., Shiroshita, H., **Johnston, D.M.**, Becker, J.S. (2017).  
Assessment of Households' Responses to the Tsunami Threat: A Comparative Study of Japan and  
New Zealand. International Journal of Disaster Risk Reduction . 25, 274-282.  
<http://www.sciencedirect.com/science/article/pii/S2212420917302455?via%3Dihub>

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