



## ABOUT THE COURSE

This short course programme has been developed to provide a theoretical and practical introduction to selected topics relating to emergency management. Each course will begin with an introduction and review of New Zealand and international research and practice. The topics will then be explored through a series of relevant case studies. The final session of each module will provide practical tools and guidance for turning the 'theory to practice'.

## PROGRAMME

### DAY 1: Monday, 12 March 2018: 9am–4:30pm Emergency management planning

This course will explore the range of emergency management planning processes and discuss issues that need to be addressed at a CDEM Group, community and organisational level. It will introduce the fundamental emergency management concepts and how these are applied in New Zealand and examine a number of recent events, such as 2004 North Island floods, 2004 Indian Ocean tsunami, 2005 Hurricane Katrina, 2010 and 2011 Canterbury Earthquake and other examples.



Mt Ruapehu, 1996

### DAY 2: Tuesday, 13 March 2018: 9am–4:30pm Developing effective all-hazard warning systems

This course will examine issues around improving the public's response to warning systems for weather, flooding, tsunami and other hazards. It will explore international examples of effective end-to-end warning systems and discuss research into the effectiveness of these systems. It will discuss existing training approaches among emergency response agencies and ways to improve these by developing and implementing new technologies and training methods. The course will also address the role of communities in developing and maintaining effective systems.

### DAY 3: Wednesday, 14 March 2018: 9am–4:30pm The role of public education, community engagement and public participation in building resilient communities

Drawing on recent research in New Zealand, Australia and internationally, this course will provide an evidence-based framework for understanding the role of public education (including schools), community engagement and public participation in building resilient communities. Case studies will examine both New Zealand and overseas examples of public education and community engagement initiatives and discuss monitoring and evaluation strategies.

### DAY 4: Thursday, 15 March 2018: 9am–4:30pm Classroom in the coach

During this day we will undertake a field excursion to explore many aspects of emergency management planning, land-use planning and options for mitigation in the Wellington and Hutt Valley. We will visit tsunami hazard zones, discuss tsunami warnings, explore the Wellington Fault, look at land-use planning for earthquakes, tsunami, landslides and flooding, examine community-based preparedness activities and visit the Wellington and Hutt Valley Emergency Operations Centres.

### DAY 5: Friday, 16 March 2018: 9am–4:30pm Welfare and wellbeing planning

This course will explore the range of issues around welfare provision. Welfare issues are examined through a series of case studies, looking at evacuation and recovery centres (design, registration issues, and psycho-social support) and the provision of support for longer-term community recovery.



Building damage in Fitzgerald Ave, Christchurch, caused by the 22 February 2011 earthquake. Photo: GNS Science



Liquification effects from the 22 February 2011 earthquake. Photo: GNS Science

## SPEAKER PROFILES

**Dr Kate Crowley** is a Hazard and Risk Engineer at NIWA, Wellington. She is an applied interdisciplinary Geoscientist specialising in impacts of natural hazards on society. Her projects aim to reduce risk in hazard settings.

**Associate Professor Sarb Johal**, is a disaster mental health researcher in the School of Psychology, Massey University.

**Prof. David Johnston**, GNS Science, Massey University, Director of the Joint Centre for Disaster Research. David's research has focused on reducing the vulnerability of society, the economy and infrastructure to hazard events.

**Dr Christine Kenney** is Senior Research Officer, at the JCDR. Christine is of Ngāti Toarangatira, Te Ātiawa and Ngāi Tahu descent and her work focuses in the area of ethnicity and disaster. Her current research examines the impact of disasters on, and responses of Indigenous peoples.

**Dr Graham Leonard**, GNS Science. Graham's current research involves multi-agency emergency response planning and effective warning system response development for hazards; modelling community impacts and resilience to hazards.

**Prof. John McClure**, School of Psychology, Victoria University. John researches peoples' thinking and motivation with a special focus on preparing for serious risks such as earthquakes.

**Daniel Neely** is the Manager of Community Resilience for the Wellington Region Emergency Management Office (WREMO). Dan has a background in community development and international disaster relief.

**Prof. Douglas Paton**, School of Psychological and Clinical Sciences, Charles Darwin University, Darwin, Australia, teaching Emergency Management papers. Douglas researches the effects of natural environmental and technological consequences on communities.

**Bruce Pepperell** is the Regional Manager and Group Controller for the Wellington Region CDEM Group. Bruce has a background in Defence Logistics and building operational capability.

**Dr Suzanne Phibbs**, School of Public Health, Massey University, is a health sociologist researching the impact of the Christchurch earthquakes on people with disabilities, she has a special interest in disability inclusive disaster preparedness and response.

**Rian van Schalkwyk** is the Manager, Business and Development at the Wellington Region Emergency Management Office and a member of the UN Disaster Assessment and Co-ordination Team (UNDAC).

**Dr Wendy Saunders**, GNS Science. Wendy is a social scientist with a particular interest in land use planning and natural hazard risk reduction.

**Dr Richard Smith** is the Manager – Science and Education at the Earthquake Commission (EQC).

Other speakers to be announced

The Summer Institute is part of the Massey University paper **130.706 Emergency Management in Practice (30 credits)**. If you are enrolled in the Massey paper you will automatically be enrolled for the Summer Institute, at no additional cost. However, you do not need to be enrolled in the paper to attend the Summer Institute. For more information about Massey University's Emergency Management teaching programme visit the website ([www.massey.ac.nz](http://www.massey.ac.nz)).