

profile

Dave Brunsdon, Director



Specialisation

Strategic Project Co-ordination;
Emergency Management Planning;
Infrastructure Risk Management;
Rescue Engineering;
Building Safety Evaluation

Overview

From observing and being involved in the aftermath of a number of overseas earthquakes, Dave has a comprehensive understanding of post-disaster response and recovery issues. This has led to his close involvement in emergency management planning at both strategic and operational levels, with emphasis on the vital risk reduction and readiness aspects.

His particular field of expertise is in the strategic project co-ordination of multi-agency projects and programmes for territorial authorities, utility organisations, government agencies and private organisations. His areas of technical specialty include infrastructure risk management, the review and exercising of Emergency Response and Business Continuity Plans, and the implementation of post-disaster building safety evaluation arrangements.

Dave has been the principal author or editor of more than 100 papers, reports and articles on subjects including lifelines engineering, emergency management, rescue engineering, earthquake reconnaissance, and earthquake risk buildings.

Qualifications

Bachelor of Engineering (Hons) (Civil), University of Canterbury, 1980

Master of Engineering (Distinction) (Civil), University of Canterbury, 1984

Professional Memberships

Chartered Professional Engineer, New Zealand

Fellow - Institution of Professional Engineers, New Zealand

Fellow and Past-President - New Zealand Society for Earthquake Engineering

Member - Institution of Engineers Australia

Member - New Zealand Society for Risk Management

Member - International Association of Emergency Managers

Professional Awards

Freyssinet Award 1986 - Institution of Professional Engineers, New Zealand

Otto Glogau Award 1986 - NZ National Society for Earthquake Engineering

Professional Commitment Award 1996 - Institution of Professional Engineers, New Zealand

Technical Award : Multi-disciplinary 2002 – Institution of Professional Engineers, New Zealand

Key Positions Held

- National Engineering Lifelines Co-ordinator (1999 to present)
- Project Manager of the Wellington Lifelines Group (1993 to present)
- Leader of the NZ Society for Earthquake Engineering Working Party on Integrated Planning for Earthquake Response (1996 to present)
- Leader of the NZ Earthquake Assistance Team that undertook building safety evaluation following the Padang, West Sumatra earthquake (2009)
- Leader of the Urban Search and Rescue Specialist Skills Working Group (2002 to 2008)
- Member of NZ USAR Task Force 1
- Member of the Government's Independent Review Team following the February 2004 Floods
- Member of the Building Research Association of NZ Board (1999 – 2005)

Key Projects

Infrastructure Resilience

- Contributor to a review and gap analysis of energy and ICT resilience policy for the *Ministry of Economic Development* (2008)
- Facilitator of Infrastructure Resilience workshops involving industry and government representatives for the *Department of Prime Minister and Cabinet* (2008)
- Reviewed the risk and emergency management planning processes and arrangements undertaken by *Watercare Services* and *Auckland International Airport*
- Worked with MCDEM, MED and the Ministry of Transport to define response co-ordination arrangements for Lifeline Utilities (incorporated in 2009 update of the Guide to the National CDEM Plan)
- Preparation and monitoring of an integrated emergency water supply strategy and implementation plan for the Wellington metropolitan water supply area

Emergency Management

Strategic Planning and Advice

- Commissioned by the Chief Executives of the Wellington region to identify future structures and arrangements for CDEM in the region (2009)
- Member of the Kestrel project team that prepared an assessment of the capacity and capability of the CDEM sector to respond to a disaster impacting the Auckland region, and the subsequent business case (2006)
- Advised the *Ministry of Economic Development* on the establishment of pandemic reporting arrangements for the infrastructure sector (2006)
- Member of the project team enhancing the disaster management capability of Samoa (2005 to 2007)
- Strategic adviser to the *NZ Urban Search and Rescue Steering Committee* (2000 to 2008)

Emergency Response Planning

- Leader of the project to update the national Building Safety Evaluation Guidelines for the New Zealand Society for Earthquake Engineering and the Department of Building and Housing (2005 to 2009)
- Development of Emergency Response Plans for a range of organisations including Watercare Services Ltd, the Auckland Regional Public Health Service and Greater Wellington Regional Council Water Group.

Operational Response

- Led the NZ Padang Earthquake Assistance Project team of ten NZ engineers undertaking building safety evaluation for NZ Aid and UNDP for two weeks following the 30 September 2009 Padang, West Sumatra earthquake
- Responded following the December 2007 Gisborne earthquake with USAR Task Force 1, and co-ordinated the building safety evaluation operation for the CBD
- Undertook co-ordination of lifeline utilities following the 2004 lower North Island floods in the National Crisis Management Centre, and established the Infrastructure Recovery Task Group with the Manawatu-Wanganui CDEM Group

Exercise Management and Evaluation

- Development and delivery of *Exercise Ruaumoko*, a national volcano eruption simulation exercise held from November 2007 to March 2008.
- Facilitation of a disaster response simulation for the gathering of FRANZ partner representatives from France, Australia and New Zealand in September 2007.
- Adviser to the *Ministry of Health* for *Exercise Cruickshank*, a national pandemic simulation exercise held in May 2007.
- Development and delivery of *Exercise Capital Quake '06* – a major earthquake simulation exercise for the *Ministry of Civil Defence and Emergency Management*, November 2006.
- Development and delivery of *Exercise Taurus* - a whole-of-government Foot and Mouth Disease simulation exercise for the *Ministry of Agriculture and Forestry*, April 2005.
- Development and delivery of the National Gas Outage Contingency Plan exercises for the Gas Association of New Zealand, September 2003 and November 2004.

Risk Management

- Co-ordination of a national structural and glazing survey of all primary and secondary schools for the Ministry of Education, including the establishment of appropriate standards and implementation of mitigation measures.

Research and Development

- Chair of the Research Steering Committee overseeing the *Resilient Organisations* project being undertaken by the University of Canterbury, University of Auckland and Kestrel Group
- Reconnaissance of the 1989 Newcastle, 1993 Guam, 1995 Kobe and 1999 Taiwan earthquakes on behalf of the NZ Society for Earthquake Engineering, including the compilation of detailed reports