

2013 Earthquake Resilience Expo

The first ever Earthquake Resilience Expo was held in April 2013 in conjunction with the NZSEE conference in Wellington, with over 1200 people attending over the 2 days.

Heralded a success by the organisers, national coverage was also given to the event by TV 1 and TV 3.

Following the success of this event, it is planned to hold a similar expo in 18 months, followed by a biannual series.

Further information about the Expo can be found at:

<http://wired.ivvy.com/event/EXPO13/>

<http://www.stuff.co.nz/dominion-post/news/8596544/Earthquake-technology-for-homes-on-show>

And the NZSEE Conference programme can be seen at:

http://www.confer.co.nz/nzsee/index_htm_files/NZSEE_2013_CONFERENCE_PROGRAMME_SUMMARY_PAPERS-2.pdf



Paul Mather from Weltec Connect Ltd with new chimney strengthening technology.



See more photos of the Earthquake Resilience Expo on the back page.

Co-Chairs' Report

2013 seems to be going extremely quickly, having reached mid-year already! Many members were actively involved in the recent Earthquake Resilience Expo and NZSEE Conference, and remain busy with their day to day business activities.

We are seeing some potential opportunities coming for the Pacific and South East Asia regions, and are currently talking with MFAT about objectives they have which may help to increase the engagement of NZ providers in these areas.

With the appointment of Phillip Gibson as Disaster Risk Management Special Envoy for NZ, we are looking forward to forming a much closer relationship with a range of agencies with whom we have not engaged regularly in the past.

We would also like to welcome Graham Nel from Disaster Prepare Ltd and Mick Turner from Cratos who have recently joined the Cluster.

Greg Szakats & Hannah Brackley, Co-Chairs

Tribute: Dr David Hopkins

As David looks to move his base to Auckland from Wellington later this year this brief tribute is for the founding Chairman of the Earthquake Engineering Business Cluster.

David has over 40 years international experience in structural and earthquake engineering in a multi-discipline context and recently celebrated his 10 years of practice in Wellington with many colleagues, friends and loved ones. This tribute to David is for those of us who were not able to make the event and a way of saying thanks for all the contributions David has made to earthquake engineering and Wellington.

David has written numerous articles on earthquake engineering topics and has made significant contributions to the field, developing a wide network of contacts internationally as a result of his involvement as a director of the International Association for Earthquake Engineering and the World Seismic Safety Initiative.

He has been responsible for many commercial, industrial and infrastructure development projects and his wide range of consulting experience includes technical, management and business development roles.

Following the Baguio earthquake in July 1990, David spent 18 months as Specialist Technical Consultant to the government of the Philippines on the World Bank and ADB funded reconstruction project. He advised six local consultants on technical aspects of the reconstruction of numerous public buildings, schools, hospitals, water supply facilities and bridges.

Since 2003 he has advised the New Zealand Department of Building and Housing, providing leadership and

technical advice, particularly on earthquake-prone building legislation, structural engineering issues and building code development.

Over the last 20 years, David has personally carried out assessments of earthquake damage losses to building and infrastructure assets for major New Zealand organizations. Assets include hospitals, port facilities, airports, rail networks, hydro-electric dams, water supply networks and industrial complexes.

In 2005 he was resident Project Manager in Turkey for a World Bank funded feasibility study for retrofitting 369 residential apartment buildings in Istanbul. Work included building surveys, assessment of structural performance, preliminary retrofit designs, a detailed benefit-cost study and a social impact survey. David developed and implemented a methodology for the benefit-cost study which was specially designed to suit the Turkish and Istanbul context. This involved close examination of the vulnerability characteristics of typical Turkish apartment buildings, drawing on the results of structural analyses made during the assessment phase of the project.

From December 2009 David spent two months in Padang, West Sumatra advising authorities on the rehabilitation of damaged buildings following the earthquake of 30 September 2009.

David was the only technical member of the Canterbury Earthquake Recovery Commission, which was established to advise central government on recovery issues following the magnitude 7.1 Darfield earthquake on 4 September 2010. Following the devastating aftershock of 22 February 2011, this has been replaced by the Canterbury Earthquake Recovery Authority, CERA.

From 23 February, David was one of the leaders of the Critical Buildings team in Christchurch that determined stabilisation measures for major buildings that were damaged, including the Grand Chancellor and Copthorne Durham hotels. On behalf of the Department of Building and Housing, David managed investigations into collapses of the CTV, PGC, Grand Chancellor and Forsyth Barr buildings in the 22 February earthquake and briefed next of kin, survivors and the media on the CTV collapse.

David is a former Director of the International Association for Earthquake Engineering (2000 to 2008), received the Institution of Professional Engineers of New Zealand (IPENZ) Professional Commitment Award in 2000 and the IPENZ Supreme Award for Technical Achievers in 2007.

He is a past president of the New Zealand Society for Earthquake Engineering and has been on earthquake reconnaissance visits to Mexico, Philippines, California, Japan and Peru, being leader on two occasions. He was awarded life membership to the New Zealand Society of Earthquake Engineers in March 2010 in recognition of his outstanding contribution to earthquake engineering. We wish David well on moving his residence to Auckland. We look forward to working with him for many years to come as we know that his head office is wherever he is – his head and his backpack office.

This Year's Cluster Meeting Dates

20 June 2013 (AGM) - Hosted by GNS Science

29 August 2013

24 October 2013

5 December 2013

Interesting Links

For the latest news and events from other organisations:

- CERA (Canterbury Earthquake Recovery Authority): www.cera.govt.nz
- Canterbury Earthquakes Royal Commission: <http://www.canterbury.royalcommission.govt.nz>
- New Zealand Society for Earthquake Engineering: www.nzsee.org.nz
- NZ Aid Programme: www.aid.govt.nz/
- Pacific Disaster Net: <http://www.pacificdisaster.net>

Natural Hazards Inc. Members' Expertise

- Strategies for disaster risk reduction, readiness, response and recovery.
- Development of organisational frameworks for emergency management.
- Emergency management education.
- Community preparedness for natural disasters.
- Multi-hazard land use planning.
- Improvement of building controls, standards and codes.
- Seismic retrofit strengthening of buildings, including simple houses.
- Seismic isolation of important buildings such as hospitals, schools, emergency management centres, government buildings, apartment buildings and heritage buildings.
- Tsunami and flood risk assessment, modelling and mitigation strategies.
- Disaster risk insurance strategies and systems.

Natural Hazards Inc. Key Contacts

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More photos of the Earthquake Resilience Expo



Kate Canderle – Robinson Seismic NZ



Graham Nel – Disaster Prepare Ltd



Caroline Turner – Cratos



Mark Burling – Seismic Restraints NZ