

2001 Technical Conference

“Future Directions: A Vision for Earthquake Engineering in New Zealand”

23 – 25 March 2001

Wairakei Resort, Taupo

SESSION 1. CHAIR: KEVIN O’KANE

Retrofit of the William Clayton Building Using Additional Damping - *Carden, L., Davidson, B., Larkin, T., and Buckle, I.*

Measurement of PGA and Attenuation in South Eastern Australia - *Brown, A., Gibson, G., Sinadinovski, C., McCue, K.*

Community’s Understanding of Earthquake Risk in Hawke’s Bay and Manawatu-Wanganui Regions - *Johnston, D., Ronan, K., Paton, D.*

Planning and Policy for Earthquake Hazards in New Zealand - *Becker, J., Johnston, D.*

Earthquake Engineering Technology Business Cluster – *Sharpe, R. and Pham, T.*

SESSION 2. CHAIR: DAVID MIDDLETON

Future Directions in Seismic Design and Performance-Based Engineering - *Mander, J.*

Avoidance of Fault Rupture Hazard in NZ: Why We Don’t, and Why We Should - *Nathan, S. and Van Dissen, R.*

Presentation of Strategic and Financial Plans for the Future of the Society – *Brunsdon, D. and King, A.*

SESSION 3. CHAIR: RUSS VAN DISSEN

Envisioning Earthquake Architecture in New Zealand - *Charleson, A., Taylor, M., Preston, J.*

Modern Multi-Storey Buildings and Moderate Earthquakes - *Brunsdon, D., Clark, W.*

Regional Liquefaction Study for Waimakariri District - *Christensen, S.*

SESSION 4 POSTER PRESENTATION

Damage Ratios for Low-Rise Non-Domestic Brick Buildings in the 1942 Wairarapa, New Zealand, Earthquakes - Dowrick, D. J., Rhoades, D. A.

Evaluation of Earthquake Risk Buildings with Masonry Infill Panels - Bell, D. K., Davidson, B. J.

Seismic Intensities Derived from Strong Motion Instruments in New Zealand - Davenport, P.

Spatial Clustering of Intraplate Earthquakes in Australia - McCue, K., Sinadinovski, C.

Preliminary Results of the Detailed Microtremor Zonation of Newcastle, New South Wales - Sinadinovski, C., Stewart, D., Jones, T.

The Akatarawa Fault: A Newly Discovered Active Fault in the Wellington Region, New Zealand, and Implications for Increased Hazard on the Wellington Fault - Van Dissen, R. J., Begg, J. G., Robinson, R.

What Earthquake Would be Amplified More at a Soil Site? - Yu, J., Taber, J. J.

Stiffness of Reinforced Concrete Elements for Seismic Design - Fenwick, R., Bull, D., Hunt, R.

The Rotation of Asymmetric Plan Structures - Castillo, R., Carr, A., Restrepo, J., Paulay, T.

Modelling the Seismic Response of Light-Timber-Framed Buildings - Deam, B.L., Moss, P.J.

Direct Displacement Based Design: A Definition of Damping - Judi, H., Davidson, B., Fenwick, R.

Determination of Inelastic Seismic Response and Evaluation of Seismic Performance for Building Structures Using Pseudo Dynamic Analysis Method - Lee, D-G., Choi, W-H., Lee, J.

Efficient Seismic Analysis of High-Rise Buildings Considering the Basements - Lee, D-G., Kim, H-S.

Dynamic Analysis of RC Frames including Buckling of Longitudinal Steel Reinforcement - Potger, G., Kawano, A., Griffith, M. C., Warner, R. F.

Two New Semi-Rigid Joints for Moment-Resisting Steel Frames - Clifton, G. C., Butterworth, J. W.

A Model for the Occurrence of Large Aftershocks, Smith, E.G.C., Christopherson, A.

SESSION 5. CHAIR: PETER MOSS

The Seismic Assessment of Building Parts and Contents: A Displacement Based Approach - Lam, N., Wilson, J.

Report from the Earthquake Risk Buildings Study Group – Hopkins, D. C.

A Practical Approach to Applying the Proposed Changes to the Earthquake Prone Provisions of the Building Act - Pynenburg, R., Brunsdon, D., Killip, R.

Session 6. Chair: Craig Stevenson

Future Earthquake Loading Standards – King, A. B., Jury, R. D.

Ductile Moment-Resisting Connections in Glulam Beams - Moss, P., Buchanan, A., Wong, N.

Lateral Resistance of Shallow Foundations - McManus, K.J. and Burdon, N.

Joint Hazard of Earthquake Shaking at Two or More Locations - Rhoades, D. A., McVerry, G. H.

Improvement of Traditional Masonry Wall Construction for use in Low-Rise/Low-Wall-Density Buildings in Seismically Prone Regions - Toranzo, L. A., Carr, A. J., Restrepo, J. I.

Report from Working Party on Integrated Response Planning – Brunsdon, D.

SESSION 6. CHAIR: KEVIN MCMANUS

Report from Storage Tanks Study Group – Whittaker, D.

A Review of Cyclic Load Testing of Indeterminate Ductile Reinforced Concrete Frames - Lau, D., Fenwick, R., Davidson, B.

Tell It Like It Is - Killip, R.

Surface Displacements from Seismic Rupture - Larkin, T., Muttlingham, B.

New Generation of Structural Systems for Earthquake Resistance - Restrepo, J.I., Mander, J.