



AEES 2009 – Program, Day 1

Friday 11 December 2009

12.00 Registration (tea/coffee/sandwiches)

12.30pm Conference Opening – Lord Mayor of Newcastle, introduced by Bill Jordan

Session One – Chair: Bill Jordan

12.50pm Keynote – Professor Robert Melchers, University of Newcastle, NSW, Australia
Failure Mechanism of the Newcastle Workers Club

1.20pm Vaughan Wesson, CHK Gridsense
Melbourne, Victoria, Australia
Response by Seismologists to the 1989 Newcastle Earthquake

1.40pm Graeme Beattie, BRANZ Ltd, Judgeford, Porirua, New Zealand
Twenty Years of Improvement in the Seismic Performance of Masonry Veneer Construction

2.00pm Gary Gibson, Environmental Systems & Services, Monash University, Melbourne,
Victoria, Australia
Earthquake Hazard at Newcastle

2.30pm Poster Talks (9 x 3mins ea)

Majid Ali
Steve Tatham
Kaiming Bai

Baraneedaran Srisantharajah
Jonathon Bathgate
Michael Asten

Feng-long Bai
Feng-long Bai
Nick Haritos

3.00pm Afternoon Tea & Poster Session

Session Two – Chair: Gary Gibson

3.30pm Keynote – Dr Paul Somerville, URS Corporation, Pasadena, California, USA, Risk
Frontiers, Macquarie University, NSW, Australia
Source and Ground Motion Models for Australian Earthquakes

4.00pm Michael Griffith, University of Adelaide, South Australia, Australia
The Mw 6.3 Abruzzo (Italy) Earthquake of April 6th, 2009: On Site Observations

4.20pm Vidal Paton-Cole, University of Melbourne, Victoria, Australia
Seismic Performance of a Brick Veneer Steel-framed House

4.40pm Nick Haritos, The University of Melbourne, Victoria, Australia
Low Cost Accelerometer Sensors – Applications and Challenges

5.00pm End of Sessions Day 1

6.30pm Pre-dinner drinks & dinner – Maritime Centre

AEES 2009 – Program, Day 2

Saturday 12 December 2009

8.15am Arrival (Tea/Coffee)

Session Three – Chair: Professor John Wilson

8.30am Keynote – Mr Rod Caldwell – Engineering Heritage Australia, Newcastle, NSW, Australia
Effects of the Newcastle Earthquake of 1989 on the New South Wales High Voltage Transmission System

9.00am Kaiming Bi, The University of Western Australia, Perth, Western Australia
Analysis of Influences of an Irregular Site with Uncertain Soil Properties on Spatial Seismic Ground Motion Coherency

9.20am James Daniell, Center for Disaster Management & Risk Reduction Technology, Karlsruhe Institute of Technology, Karlsruhe, Germany
Open Source Procedure for Assessment of Loss using Global Earthquake Modelling Software (OPAL-GEM1)

9.40am Lawrence Anton, Port Moresby Geophysical Observatory, Port Moresby, PNG
Earthquake Hazard of Port Moresby, Papua New Guinea: An Intra-plate Setting

10.00am Poster Talks (9 x 3mins ea)

Suksun Horpibulsuk Huang Yao Josh Kirk Tim Mote Elisa Lumantarna
Kevin McCue Stuart Thurston Siva Sivanerupan Mohammad Reza Zare

10.30am Morning Tea & Poster Session

Session Four – Chair: Professor Mike Griffith

11.00am Keynote – Dr Mark Stirling, GNS Science, Lower Hutt, New Zealand
Ground Motion-based Testing of Seismic Hazard Models in New Zealand

11.30am Bidur Kafle, The University of Melbourne, Parkville, Victoria, Australia
Shaking Table Tests on Strength Degradation Behaviour

11.50am Trevor Allen, Geoscience Australia, Canberra, ACT, Australia
Tools and Datasets of the Prompt Assessment of Global Earthquakes for Response (PAGER) System

12.20pm Hing-Ho Tsang, University of Hong Kong
Protecting Low-to-medium-rise Buildings by Scrap Tyre-soil Mixture

12.40pm Edward Cranswick, Public Seismic Network (Geophysicist, US Geological Survey, retired)
Mashers Fault and the Seismicity Anticipated to be Stimulated by the Proposed Open Pit Mine at Olympic Dam

1.00pm Lunch at Crowne Plaza

1.45pm Annual General Meeting

3.30pm Public Forum – Christchurch Cathedral. Moderator – Professor Trevor Waring, Chancellor, University of Newcastle

5.00pm Presentation on the Seismic Retrofit to the Cathedral

6.00pm 20th Anniversary Earthquake Commemoration Service in the Cathedral

6.45pm Pre-dinner drinks & dinner – Newcastle Club (located next door to the Cathedral)

AEEES 2009 – Program, Day 3

Sunday 13 December 2009

8.15am Arrival (Tea/Coffee)

Session Five – Chair: Kevin McCue

8.30am Keynote – Dr John Adams, Geological Survey of Canada, Natural Resources, Canada
Seismic Hazard Estimation in Canada and its contribution to the Canadian Earthquake Loading Code – Implications for Code Development in Countries such as Australia

9.00am George Walker, Aon Benfield Asia Pacific, James Cook University, Australia
Comparison of the Impacts of Cyclone Tracy and the Newcastle Earthquake on the Australian Building and Insurance Industries

9.20am David Burbidge, Geoscience Australia, Canberra, ACT, Australia
Session on the Proposed Australian Earthquake Hazard Map

9.55am Poster Talks (4 x 3mins ea)

Rupali Bhamare
Vic Dent
Vic Dent
Gary Gibson
Deborah Hegarty

10.10am Morning Tea & Poster Session

Session Six – Chair: Professor Adrian Page

10.40am Najif Ismail, University of Auckland, Auckland, New Zealand
Out-of-plane Testing of Seismically Retrofitted URM Walls using Post-tensioning

11.00am Ari Wibowo, Swinburne University of Technology, Hawthorn, Victoria, Australia
Collapse Modelling Analysis of a Precast Soft-storey Building in Melbourne

11.20am Session on the 2009 earthquakes and tsunami; Samoa, Vanuatu and Sumatra

12.10pm Wrap up – Gary Gibson

12.30pm Conference Closes

Poster Presentations

Presenting Author	Presentation Title
Majid Ali	Coir Fibre and Rope Reinforced Concrete Beam under Dynamic Loading
Michael Asten	Variability of Shear Wave Velocity Structures in Launceston, Tasmania
Feng-Long Bai	Response analysis of a transmission tower-line system to spatial ground motions
Feng-Long Bai	Effect of ground motion spatial variations on seismic responses of a long span steel trussed arch
Jonathon Bathgate	Detailed Assessment of the Korumburra Earthquake Cluster, 2009
Rupali Bhamare	Displacement Controlled Behaviour of Soft Storey Buildings based on the results from Full Scale Testing
Kaiming Bi	Dynamic SSI effect on the required separation distances of bridge structures to avoid seismic pounding
Vic Dent	Seismic network capability and magnitude completeness maps, 1960 – 2005 for Western Australia, South Australia and the Northern Territory
Vic Dent	The Beacon, WA earthquake swarm commencing January 2009
Gary Gibson	Australian Earthquake Catalogues
Nick Haritos	Behaviour of Outrigger Beams in High rise Buildings under Earthquake Loads
Deborah Hegarty	Code Comparison of Structural Design Actions Part 4: Earthquake Actions in Australia AS1170.4 – 1993 & 2007
Suksun Horpibulsuk	Behaviour of Cemented Soft Clays in Undrained Situations
Joshua Kirk, Hong Hao	Numerical Investigation of Floor Isolation for Passive Earthquake Energy Dissipation
Elisa Lumantarna	Drift Demand Predictions in Low to Moderate Seismicity Regions
Kevin McCue	Relative earthquake hazard of Newcastle NSW
Tim Mote	Probabilistic Seismic Hazard Assessment for Central Manila in Philippines
Siva Sivanerupan	Seismic Assessment of Glazed Façade Systems
Baraneedaran Sriskantharajah	Review of In-service Assessment of Timber Poles
Steve Tatham	Responding to the Korumburra Earthquake Cluster, 2009
Stuart Thurston	Seismic resistance of brick veneer under face loading
Huang (Jack) Yao	Design and Analysis of a Case-Study Low-Rise Building with Moment-Resisting Composite Frames
Mohammad Reza Zare	Wastewater Pipeline Vulnerability to Earthquakes