

## AEES 2006 Program

### Friday 24 November 2006

12:00	Registration			
	Session Chair – John Schneider			
	Introduction - Mark Leonard			
13:00	Opening	Neil Williams	CEO GA	
13:10	Keynote	Tony Pearce	DG EMA	The role of science, engineering and risk in catastrophic disaster preparedness and response
13:40		Mark Edwards and Neil Corby	GA	Lessons from Cyclone Larry in co-ordinated earthquake post-disaster surveys
14:00		Colin Gurley	SIT NSW	Protecting life & reducing damage in earthquakes and terrorist attacks
14:20		Mark Leonard and Dan Clark	GA	Reconciling neotectonic and seismic recurrence rates in SW WA
14:40		Posters talks		7 talks, 3 minutes each
15:10	Afternoon Tea, Poster Session and tours of the tsunami warning centre			
	Session Chair – Mark Leonard			
16:00	Keynote	Gail Atkinson:	Carleton Uni Canada	Forecasting earthquake ground motions, for damage estimation and hazard models
16:20		Elisa Lumantarna, Jerry Vaculik, Mike Griffith, Nelson Lam and John Wilson	Melb Uni / Adelaide Uni	Seismic fragility curves for un-reinforced masonry walls
16:40		Ole Nielson	GA	Advances in the understanding of Australian tsunami risk
17:00	AGM			
17:30	Buses for canapes and drinks at Pialligo Estate Wines with talk by wine maker Andrew McEwin (Bus pickup GA and drop off GA-area motels)			
18:00				

### Saturday 25 November 2006

08:00	Registration			
	Session Chair – Paul Somerville			
08:45	Keynote	Gary Gibson	ES&S	Seismological contributions to earthquake risk mitigation
09:15		Graeme McVerry	GNS, NZ	An approach to response spectrum attenuation modelling for SE Australia
09:35		Andrew McPherson and Trevor Allen	GA / USGS	An improved understanding of earthquake ground motion in Australia
10:05		Poster talks		9 talks, 3 minutes each
10:35	Morning Tea and Poster sessions			
	Session Chair – John Wilson			
11:20		Dan Clark	GA	A seismic source zone model based on neotectonic data
11:40		Wirtu Bayissa, Nicholas Haritos and Sven Thelandersson	MelbUni	Structural condition assessment from recorded earthquake response data
12:00		Jeff Fisher, Paul Somerville, John Zhao and Jian Zhang	Risk Frontiers / GNS Science	Bounds on the distribution of amplitudes in ground motion prediction models
12:20		Kittipoom Rodsin, Nelson Lam, John Wilson and Helen Goldsworthy	Melb Uni / Swinburne Uni	Seismic fragility curves for soft storey buildings
12:40	Lunch by Café Rocco			
18:00	Dinner at Café d'lish Mt Stromlo and shown tell by astronomer (Bus pickup GA-area motel)			

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### Saturday Afternoon Outings:

- Bushwalk: Yerrabi Track, Namadgi National Park (weather permitting)
- Golf or Pitch & Putt (across road from GA building)
- Self guided culture tours: National Gallery (of Australia), National Museum, National Library, War Memorial

### Sunday 26 November 2006

08:15	Registration			
	Session Chair – Mike Griffith			
08:45	Keynote	John Wilson and Nelson Lam	Swinburne Uni/Melb Uni	Recent developments in the research and practice of earthquake engineering in Australia
09:15		Paul Somerville, Jeff Fisher, David Rhoades, Mark Leonard	Risk Frontiers/GNS Science/GA	Preliminary test of the EEPAS long term earthquake forecast model in Australia
09:35		Geoffery Cocks and Michael Hillman	Coffey Geotechnics	Ground displacement at the north shore pier of the Narrows Bridge, Perth, Western Australia during the Meckering earthquake
09:55		Poster talks		8 talks, 3 minutes each
10:25	Morning Tea and Poster Session			
	Session Chair –Gary Gibson			
11:20		Mike Turnbull and Dion Weatherley	CQU/UQ	Validation of using Gumbel probability plotting to estimate Gutenberg-Richter seismicity parameters.
11:40		Russell Cuthbertson	ES&S	Automatic calculation of seismicity rates in eastern Queensland
12:00		Dion Weatherley	UQ	Coulomb stress changes due to Queensland earthquakes and the implications for seismic risk assessment
12:20		Cvetan Sinadinovski, Stewart Greenhalgh and David Love	ANU/Adelaide Uni/PIRSA	Historical earthquakes: a case study for Adelaide 1954 earthquake
12:40	Wrap-up (John Wilson)			
13:00	Conference Closes			

### Advice to speakers:

The program is full and we request that speakers respect the other attendees and keep to time. Speakers should aim to speak for 15 minutes and leave 5 minutes for questions (25 & 5 minutes for keynotes). You will be given a cue at 13 minutes. Please finish up promptly after this in order to leave time for questions. Remember, more often than not the discussion triggered by your talk will be more interesting and memorable than the talk itself.

Talks will be loaded directly onto the computer in the auditorium, so please ensure your talk is loaded well before the start of the session in which you are speaking.

### Advice to poster presenters

The purpose of the 3 minute poster-talks is to give the audience a taste of your work and encourage people to view your poster. The committee recommends that if you plan to give a visual presentation you limit it to 3 slides (eg. introduction to the topic of the poster; what you did; and the major results). An extra slide or two for rapid viewing, where for example you are presenting before and after results, will be acceptable, but not text. Presentations will be limited to 5 slides.

Talks will be loaded directly onto the computer in the auditorium, so please ensure your talk is loaded well before the start of the session in which you are speaking (see Poster Presentations table below).

## AEES 2006 Program

### Poster presentations

<i>Authors</i>	<i>Title</i>	<i>Session</i>
Agus Abdulah	Attenuation structure beneath Australia	Sat
Haider Al Abadi, Nelson Lam and Emad Gad	Seismic fragility curves for damage to building contents	Fri
Trevor Allen and Gail Atkinson	Comparison of earthquake source spectra and attenuation in southeastern Australia and eastern North America	Sat
Clive Collins, Robert Kayen, Brad Carkin Trevor Allen Phil Cummins and Andrew McPherson	Shear wave velocity measurement at Australian ground motion seismometer sites by the spectral analysis of surface waves (SASW) method	Sat
Ken Dale and Shaun Flay	Structural vulnerability estimation under tsunami loads	Fri
Vic Dent, Dan Heal & Paul Harris	A new network of low-cost recorders in Western Australia	Sun
Beatriz Estrada, Dan Clark, Karl-Heinz Wyrwoll and Mike Dentith	Paleoseismic investigation of a new Quaternary fault in Western Australia: the Dumbleyung Fault	Sat
Jane Hodgkinson, Stephen McLoughlin and Malcolm Cox	The correlation between physiography and neotectonism in southeast Queensland	Sun
Suzanne Hunt, C Morelli, P J Boulton and Cvetan Sinadinovski	Seismic hazard assessment through predictive modelling of local stress changes due to hot fractured rock geothermal energy operations in the Cooper Basin of South Australia	Sat
Ima Itakarai, Brian Kennett and Cvetan Sinadinovski	Volcano-tectonic earthquakes and magma reservoirs: their influence on volcanic eruptions in Rabaul caldera	Fri
Zhong Yuan Liang, Hong Hao, Brian Gauld and Cvetan Sinadinovski	Prediction of strong ground motion in Western Australia with a combine Green function and Stochastic method	Sat
David Love	New Adelaide earthquake monitoring network	Sun
David Love, Phil Cummins and Natalie Balfour	Earthquake patterns in the Flinders Ranges - temporary network 2003-2006 preliminary results	Sat
Kevin McCue	Remote triggering: an Australian perspective	Sun
Kevin McCue	An ongoing role for intensity data in Australia	Fri
Andrew McPherson and Lisa Hall	Site classification for earthquake hazard and risk assessment in Australia	Sun
Dee Ninis and Gary Gibson	Developing a seismotectonic model using neotectonic setting and historical seismicity - application to central NSW	Fri
James Roberts and Michael Asten	Investigation of near source effects in array-based (SPAC) microtremor surveys	Sat
Ibrahim Saidi, Nick Haritos, Emad Gad and John Wilson	Vibrations due to human excitation - damping perspective	Sun
Srikanth Venkatesan, Nelson Lam and John Wilson	Simple model accounting for the soil resonance phenomenon	Sun
Zubair Syed, Priyan Mendis and Nelson Lam	Concrete damage assessment for blast load using pressure-impulse diagrams	Fri
Mike Turnbull	Estimation of Gutenberg-Richter seismicity parameters for the Bundaberg region using piecewise extended Gumbel analysis.	Sat
Huang Yao, Helen Goldsworthy and Emad Gad	Simplified component model for curved T-stub connection to concrete-filled steel tube with blind bolts and extensions	Sat
Maxime Claproud and Michael Asten	Use of microtremors for site hazard studies in the 2D Tamar Rift Valley, Launceston, Tasmania	Fri 7