

# Pre-Conference Meetings

**Thursday 24 November 2016**

**Hazard Workshop**

9.00am – 12.00pm

Board Room

School of Earth Sciences

University of Melbourne

**SeismOz – The Annual Meeting of Australian Seismologists**

Fritz Loewe Theatre

University of Melbourne

(Ground floor, School of Earth Sciences, McCoy Building, 253-283 Elgin St, Carlton)

2.00pm – 5.00pm

An annual forum where Australian seismologists report on networks changes, and significant projects or developments, and discuss everything from education to monitoring technology. Speakers typically include representatives from Geoscience Australia, the Seismology Research Centre, AuScope and other regional earthquake observatories.

If you would like to attend please email the organisers at [webmaster@aees.org.au](mailto:webmaster@aees.org.au)



## **ASC/AEES PROVISIONAL PROGRAM** as at 14 November, 2016

	<b>ASC session</b> – For those registered for only the ASC conference or both ASC with AEES Sessions (AEES <i>only</i> registrations cannot attend)
	<b>AEES session</b> – For those registered for AEES only or for ASC <i>with</i> AEES sessions included (ASC <i>only</i> registrations cannot attend)
	<b>Joint session</b> – Everyone can attend

<b>Friday 25 November 2016</b>	
8.00 – 8.30am	<b>Registration – MCEC Level 1 (Convention Centre, Hilton/DFO end). Foyer 1 (window side of floor)</b> <b>Arrival Tea &amp; Coffee</b>
8.30 – 8.45am	<b>Presidents' Welcome (Room 106)</b> <b>Gary Gibson</b> , President, Asian Seismological Commission <b>Paul Somerville</b> , President, Australian Earthquake Engineering Society
8.45 – 10.15am	<b>Geodynamics 1 (Room 106)</b>  8.45- 9.15am – <b>KEYNOTE</b> Lithospheric discontinuities beneath Australia: interaction of large-scale and fine scale structure (Paper ASC43) <b>Prof Brian Kennett, Research School of Earth Sciences, Australian National University, Canberra, ACT, Australia</b>  9.15am – 9.35am - High-resolution crustal models of Northeast China from Transdimensional Bayesian inversion and H <sup>1</sup> analysis of Receiver functions (Paper ASC44) <b>Nita Sebastian, Australian National University, Canberra, ACT, Australia</b>  9.35am – 9.55am - Teleseismic interferometry in studying shallow subsurface structures: Detection of interfaces beneath Antarctic stations (Paper 26) <b>Thanh-Son Pham, Australian National University, Canberra, ACT, Australia</b>  9.55-10.15am – P- and S- Wave Receiver Function Images at the Lithosphere-Asthenosphere Boundary in Southwest China (Paper ASC99) <b>Weilai Wang, Institute of Geophysics, China Earthquake Administration, China</b>  <b>Session Chair: Gary Gibson</b>

10.15am – 10.45am	<b>Morning Tea and Posters – Foyer 1, Level 1</b>
10.45am – 12.05pm	<p style="text-align: center;"><b>Geodynamics 2 (Room 106)</b></p> <p style="text-align: center;"><b>Session Chair: TBC</b></p> <p>10.45am-11.05am Fracture induced shear wave splitting in a source area of triggered seismicity by the Tohoku-oki earthquake in northeastern Japan (Paper 84) <b>Masahiro Kosuga</b>, <i>Hirosaki University, Japan</i></p> <p>11.05am – 11.25am Elongation of the dominant period of long-period ground motions in the Tokyo bay area (Paper 68) <b>Kazuo Yoshimoto</b>, <i>Yokohama City University, Japan</i></p> <p>11.25am – 11.45am Orientation of links connecting pairs of neighbour epicentres on Kamchatka is non-random, and varies in space and time (Paper 23) <b>Alexander Gusev</b>, <i>Institute of Volcanology and Seismology Russian Ac. Sci. Petropavlovsk-Kamchatsky, Russia</i></p> <p>11.45am – 12.05pm Lithospheric Structures in Yunnan area by using ChinArray Data (Paper 94) <b>Zhifeng Ding/Zhongliang Wu</b>, <i>Institute of Geophysics, China Earthquake Administration, China</i></p> <p>12.05pm – 12.35pm Integrated analysis of receiver function and gravity data for crustal parameters (Paper 101) <b>Lei Shi</b>, <i>Institute of Geophysics, China Earthquake Administration, China</i></p>
12.35 – 1.00pm	<b>Lunch – Foyer 1, Level 1</b>

12.00pm – 12.50pm		<b>AEES Registration opens (foyer)</b>
1.00pm – 1.10pm		<b>AEES CONFERENCE OPENS – Paul Somerville</b>
1.10pm – 3.00pm	<b>Outreach &amp; Education (ASC)</b>	<b>Innovative Structures (AEES)</b>
	<b>Room 106</b>	<b>Room 105</b>
	<b>Chair: TBA</b>	<b>Chair: Prof Helen Goldsworthy</b>
	<p>1.10pm – 1.40pm  Training courses of International Institute of Seismology and Earthquake Engineering, Building Research Institute in the fields of Seismology, Earthquake Engineering, and Tsunami Disaster Mitigation (Paper ASC37)  <b>Toshiaki Yokoi</b>, <i>International Institute of Seismology and Earthquake Engineering, Building Research Institute</i></p> <p>1.40pm – 2.00pm  Earthquake alarm and situation awareness outcomes from a local scale seismic monitoring network operating in Eastern Australia (Paper 105)  <b>Wayne Peck</b>, <i>Seismology Research Centre, Richmond, Victoria, Australia</i></p> <p>2.00pm – 2.20pm  StIRRRD: A disaster risk reduction program in Indonesia (Paper 51)  <b>Michele Daly</b>, <i>GNS Science Ltd, New Zealand</i></p> <p>2.20pm – 2.35pm  A seismological interest group in South Australia (Paper ASC80)  <b>David Love</b>, <i>Geological Survey of South Australia</i></p> <p>2.35pm – 3.00pm  Australian Seismometers in Schools - Inspiring a new generation of Earth Scientists (Paper 106)  <b>Michelle Salmon</b>, <i>The Australian National University, Canberra, ACT, Australia</i></p> <p><b>ASC Program ends at 3.00pm. If you are registered for ASC with AEES Sessions you may attend either of the 3.30pm sessions.</b></p>	<p>1.00pm – 1.10pm - <i>Welcome by President – Paul Somerville</i></p> <p>1.10pm – 1.30pm - <b>Keynote</b>  New Zealand Research Applications of, and Developments in, Low Damage Technology for Steel Structures (Paper 390)  <b>Gregory MacRae</b>, Canterbury University, New Zealand</p> <p>1.30pm – 1.45pm  Seismic Damage-Resistant System for Modular Steel Structures (Paper 345)  <b>John Jing</b>, Harrison Grierson, Auckland, New Zealand</p> <p>1.45pm – 2.00pm  Ductility of dowelled and nailed CLT and LVL connections under monotonic and cyclic loading (Paper 323)  <b>Minghao Li</b>, University of Canterbury, New Zealand</p> <p>2.00pm – 2.15pm  Improved Performance of Moment Resisting Connections To Concrete Filled Square Hollow Sections Using Double-Headed Anchored Blind Bolts (Paper 353)  <b>Tilak Pokharel</b>, The University of Melbourne, Victoria, Australia</p> <p>2.15pm – 2.30pm  The Behaviour of Replaceable Buckling Restrained Fuses (RBRFs) in Composite Structures under Earthquake Events (Paper 363)  <b>Yusak Oktavianus</b>, The University of Melbourne, Victoria, Australia</p> <p>2.30pm – 3.00pm  <b>Geoscience poster mini presentations</b></p> <p><i>Quantitative estimation of basin effects based on statistical analysis (Paper 324) Chuanbin Zhu</i>  <i>Seismotectonic Model for the Australian Plate - Beyond Borders (Paper 325) Vicki-Ann Dimas</i>  <i>The Bredbo NSW earthquake near Canberra, January 2016 (Paper 327) Kevin McCue</i>  <i>Estimation of TDOA Based on Cross Wavelet Analysis (Paper 329) Linqi Huang</i>  <i>2015 Fraser Island Earthquake Sequence (Paper 356) Elodie Borleis</i>  <i>Clustered seismicity in the Southwest Australia seismic Zone, 2015-2016 (Paper 389) Vic Dent</i>  <i>A preliminary map of cluster locations in southwest Western Australia, 1990 – 2016 (Paper 391) Vic Dent</i></p>
	3.00pm – 3.30pm	<b>AFTERNOON TEA</b>

3.30pm – 5.50pm	<b>Australian Seismic Hazard Map (AEES)</b>	<b>Masonry Buildings (AEES)</b>
	<b>Room 106</b>	<b>Room 105</b>
	<b>Chair: Jonathan Griffin</b>	<b>Chair: Prof Jason Ingham</b>
	<p>3.30pm – 4.00pm Development of the Australian National Seismic Hazard Assessment (NSHA) 2018 (Paper AEES340) <b>Jonathan Griffin</b>, Geoscience Australia</p> <p>4.00pm – 4.15pm Incorporating fault sources into the Australian National Seismic Hazard Assessment (NSHA) 2018 (Paper AEES339) <b>Dan Clark</b>, Geoscience Australia</p> <p>4.15pm – 4.30pm Towards a homogeneous earthquake catalogue for Australia (Paper AEES 341) <b>Hadi Ghasemi</b>, Geoscience Australia</p> <p>4:30pm – 4:45pm Earthquake Source Zones in Intraplate Australia without Binning (Paper 342) <b>Kevin McCue</b>, Australian Seismological Centre</p> <p>4.45pm – 5.00pm A Proposed PSHA Source Zone for Australia (Paper AEES335) <b>Kevin McCue</b>, Australian Seismological Centre</p> <p>5.00pm – 5.15pm Revised AUS6-Model: Significant Changes &amp; Approaches to the Seismotectonic Model (Paper AEES371) <b>Vicki-Ann Dimas</b>, Seismology Research Centre, Richmond, Victoria, Australia</p> <p>5.15pm – 5.30pm Automatic determination of seismicity rates in Australia (Paper 370) <b>Russell Cuthbertson</b>, Seismology Research Centre, Richmond, Victoria, Australia</p> <p>5.30pm – 5.45pm Generation of Synthetic Earthquake Accelerograms based on up-to-date Seismological Ground Motion Models (Paper 336) <b>Yuxiang Tang</b>, The University of Melbourne, Victoria, Australia</p> <p>5.45pm – 6.00pm <b>Discussion</b></p>	<p>3.30pm – 4.00pm <b>KEYNOTE</b> Recent developments in the seismic assessment of masonry buildings (Paper 396) <b>Prof Michael Griffith</b>, The University of Adelaide, South Australia</p> <p>4.00pm – 4.15pm Controlling and predicting effects on masonry buildings of ground vibrations from blasting (Paper 328) <b>Bill Jordan</b>, <b>Bill Jordan &amp; Associates</b>, Newcastle, NSW, Australia</p> <p>4.15pm – 4.30pm Characterisation of Heritage Masonry Construction in NSW - State Heritage Register” (Paper AEES 394) <b>Milon Howlader</b>, The University of Newcastle, NSW, Australia</p> <p>4.30pm – 4.45pm A case study of seismic performance of retrofitted URM electrical distribution substations (Paper 354) <b>Noor Aina Misnon</b>, University of Auckland, New Zealand</p> <p><b>4.45pm – 5.00pm</b> Seismic Design of Tunnels in the Sydney Region: Selection of Earthquake: Parameters and Approach (Paper 347) <b>Beatriz Estrada</b>, Pells Sullivan and Meynink,</p> <p><b>5.00pm – 5.15pm</b> A multidisciplinary evaluation of URM buildings successfully retrofitted prior to the 2010/11 Canterbury earthquake sequence (Paper 388) <b>Shannon Abeling</b>, University of Auckland and QuakeCoRE, New Zealand</p> <p>5.15pm – 6.00pm <b>Engineering mini poster presentations</b> Rapid Seismic Retrofit of Existing Bridge Piers through Gravity-Anchored Cable-Bracing System (Paper 382) <b>Hing-Ho Tsang</b> Failure of structures: can you see it coming? (Paper 368) <b>Hinke Osinga</b> Non-seismic and seismic qualification and design of anchor channels with channel bolts (Paper 326) <b>Christoph Mahrenholtz</b> Numerical Study on the Effectiveness of Using Viscoelastic TMD to Mitigate Seismic Response of Above-Ground Pipelines (Paper 334) <b>Kaiming Bi</b> Retrofitting RC Beam-Column Joint in Australia using Single Diagonal Haunch (Paper 378) <b>Alireza Zabihi</b> Replaceable reduced web link section for link-to-column connections in EBFs (Paper 367) <b>Daniel Abebe</b> Seismic Performance of Buried Cables during the Canterbury Earthquake Sequence (Paper 372) <b>Sheng Lin Lin</b> Displacement Based Design of Bridge Abutments (Paper 337) <b>Rohit Tiwari</b></p>
6.00pm – 8.00pm	<b>Welcome Reception – Level 1, Foyer 1</b>	
7.30pm	ASC Committee	

Saturday 26 November 2016		
8.00 – 8.15am	Registration, Arrival Tea & Coffee – Level 1, Foyer 1	
8.15 – 9.00am	<p style="text-align: center;"><b>Recent Earthquakes</b>  8.15am – 8.35am – <b>Keynote</b>  The Kumamoto, Japan, earthquake series of April 2016 (Paper 41)  <b>Kenji Satake, Earthquake Research Institute, University of Tokyo, Japan</b></p> <p style="text-align: center;">8.35am – 9.00am – The Petermann Ranges Mw 6.1 Earthquake of 2016-05-20 1814 UTC and its Aftershocks (Paper 383)  <b>Gary Gibson/Tamarah King, Seismology Research Centre, Richmond; University of Melbourne, Parkville, Victoria, Australia</b></p> <p style="text-align: center;">9.00am – 9.15am - ISC Contribution to Global and Regional Seismic Hazard Assessment and Civil Engineering (Paper 387)  <b>Dmitry Storchak – ISC, United Kingdom</b></p> <p style="text-align: center;">9.15am – 9.30am – Design Ground Motion Time Histories using the Conditional Mean Spectrum (Paper 46/365)  <b>Paul Somerville, AECOM and Risk Frontiers, Sydney, NSW, Australia</b></p> <p style="text-align: center;"><b>Room 106</b>  <b>Session Chair: TBC</b></p>	
9.30am – 10.00am	<b>Morning Tea – Foyer 1, Level 1</b>	
10.00am – 10.15am	<b>Recent Earthquakes (ASC)</b>	<b>Hazard, Fragility &amp; Damage (AEES)</b>
	<b>Room 106</b>	<b>Room 105</b>
	<b>Chair: TBA</b>	<b>Chair: Elisa Lumantarna</b>
	<p>10.00am – 10.15am  Rupture directivity effects during the April 15, 2016 Kumamoto Mw7.0 earthquake in Japan (Paper 102)  <b>Junju Xie</b>, Institute of Geophysics, China Earthquake Administration, Beijing, China</p> <p>10:15 – 10:30am  “Strong Ground Motion Assessment Scheme for Specified Source Faults” and the Kumamoto Earthquake (Paper 90)  <b>Kazuki Koketsu</b>, Earthquake Research Institute, University of Tokyo, Japan</p> <p>10:30 – 10:45am  Recent Earthquakes in Queensland, Australia (Paper 27)  <b>Russell Cuthbertson</b>, Seismology Research Centre, Queensland, Australia</p> <p>10.45am – 11.00am  Source Process of the 2014 ML5.5 Orkney earthquake, South Africa (Paper 20)  <b>Makoto Okubo</b>, Kochi University, Japan</p> <p>11.00am – 11.15am  Widespread ground motion distribution caused by rupture directivity during the 2015 Gorkha, Nepal earthquake (Paper ASC65)  <b>Kazuki Koketsu</b>, Earthquake Research Institute, University of Tokyo, Japan</p> <p>11.00 – 11.15am  The 2015 Mw7.8 Gorkha, Nepal earthquake: Earthquake relocation, seismogenic structure and prospective seismic risk (Paper 15)  <b>Ling Bai</b>, Institute of Tibetan Plateau Research, Chinese Academy of Sciences, China</p> <p><b>11.30am – 12.30pm– ASC General Meeting</b></p>	<p>10.00am – 10.15am  The historical socioeconomic cost of earthquakes vs. other natural disasters types globally - an argument for greater funding for research and prevention (AEES Paper 343)  <b>James Daniell</b>, Geophysical Institute/Center for Disaster Management &amp; Risk Reduction Technology, Karlsruhe Institute of Technology, Karlsruhe, Germany</p> <p>10.15am – 10:30am  Comparison of Earthquake Loads and Wind Loads for Low and Mid Rise Concrete Buildings with Respect to Ductility Requirements and Reinforced Concrete Detailing (AEES Paper 355)  <b>Natalie O'Brien</b>, Bonacci Group</p> <p>10:30am – 10:45am  Earthquake Scenario-based Assessment for Empirical Seismic Fragility Functions (AEES Paper 358)  <b>Muriel Naguit</b>, Australian National University, Canberra, ACT, Australia</p> <p>10:45am – 11:00am  Structural Monitoring Policy: What Australia Could Learn from the Philippines (Paper 384)  <b>Adam Pascale</b>, Seismology Research Centre, Richmond, Australia</p> <p>11.00am – 11.15am  Simplified Probabilistic Aftershock Hazard Analysis (AEES Paper 364)  <b>Tim Mote</b>, ARUP</p> <p>11.15am – 11:30am  Seismic Hazard Modelling for Malaysia (Paper 386)  <b>Nelson Lam</b>, The University of Melbourne, Parkville, Victoria, Australia</p> <p>11.30am -11.45am  Discussion</p>
12.30 ASC 11.45AEES	<b>12.30pm - Lunch – Foyer 1, Level 1</b>	<b>11.45am - Lunch – Foyer 1, Level 1</b>

1.00pm – 2.40pm	<b>Hazard &amp; Risk – PSHA (ASC)</b>	<b>Hazard &amp; Risk – Site Response (ASC)</b>
	<b>Room 106 Chair: TBA</b>	<b>Room 105 Chair: TBA</b>
	<p>1.00pm – 1.20pm Seismic hazard in major cities in close vicinity to the Himalayan collision boundary (Paper 34) <b>Raj Chadha</b>, CSIR: National Geophysical Research Institute, Hyderabad, India</p> <p>1.20pm – 1.40pm Modelling Subduction Zone Seismogenic Hazards in Southeast Asia for Seismic Hazard Assessments (Paper 13) <b>Vicki-Ann Dimas</b>, RMIT University/Seismology Research Centre, Victoria, Australia</p> <p>1.40pm – 2.00pm Earthquake databases for seismic hazard assessment (Paper 25) <b>Ruben Tatevosyan</b>, Institute of Physics of the Earth, RAS</p> <p>2.00pm – 2.20pm The ISC Products and Services for Asia (Paper 63) <b>Dmitry Storchak</b>, International Seismological Centre, UK</p> <p>2.20pm – 2.40pm Will the next damaging earthquake in Australia occur on a fault line? (Paper 79) <b>David Love</b>, Geological Survey of South Australia</p> <p>2.40pm – 3.00pm <b>Discussion</b></p>	<p>1.00pm – 1.20pm</p> <p>1.20pm – 1.40pm</p> <p>1.40pm – 2.00pm</p> <p>2.00pm – 2.20pm</p> <p>2.20pm – 2.40pm The numerical simulation of sediments ground motion on variation in thickness and wave velocity (Paper 100) <b>Li Yiqiong</b>, Institute of Geophysics, China Earthquake Administration</p> <p>2.40pm – 3.00pm Application Research of Topographic Slope as a Proxy for Seismic Site-Conditions and Amplification in China Earthquake Risk Analysis (Paper 104) <b>Zhou Jian</b>, Institute of Geophysics, China Earthquake Administration</p>
3.00pm – 3.30pm	<b>AFTERNOON TEA – Foyer 1, Level 1</b>	
3.30pm – 5.30pm	<b>Earthquake Geology Workshop (ASC)</b>	
	<b>Room 106 Chairs: Quigley/Gibson</b>	
	<p>3.40pm – 4.00pm <b>Quigley, Clark, King</b></p> <p>4.00pm – 4.20pm <b>Questions &amp; Answers</b></p> <p>4.40pm – 5.00pm Study on the seismic hazard in the southern part of North-South Seismic Belt using the potential rupture surface Model (Paper 96) <b>Guangyin Xu</b>, Institute of Geophysics, China Earthquake Administration</p> <p>5.00pm – 5.20pm Historical and Paleoseismic Evidence of the 1879 Mw7.4 Surigao Earthquake, Philippines (Paper 52) <b>Jeffrey Perez</b>, Philippine Institute of Volcanology and Seismology, Department of Science &amp; Technology (PHIVOLCS-DOST)</p> <p>5.20pm – 5.30pm Discussion</p> <p><b>5.30pm – ASC Working Group, Asia-Pacific H&amp;R</b></p>	
7.30pm – 10.30pm	<b>CONFERENCE DINNER - MCG</b>	

Sunday 27 November 2016		
7.45am – 8.00am AEES		AEES Tea/Coffee Served - foyer
8.00am – 9.00am AEES		<b>AEES AGM (Members only)</b> <b>Room Name</b>
9.00am – 9.20am ASC	ASC Tea/Coffee Served - foyer	
9.00am – 10.40am AEES	<b>Volcano Seismology (ASC)</b>	<b>Australian Ground Motion Hazard Map (AEES)</b>
	<b>Room 106</b> <b>Chair: TBA</b>	<b>Room 105</b> <b>Chair: Prof John Wilson</b>
9.40am – 10.40am ASC	<p>9.40am – 10.00am Checking the relation between volcanic eruptions and large earthquake activity in and around Philippine (Paper 50) <b>Yuzo Ishikawa</b>, <i>Geological Survey of Japan, AIST</i></p> <p>10.00am – 10.20am Temporal variation of the ACROSS signals associated with 15-Aug-2015 intrusive event in Sakurajima volcano, Japan (Paper 83) <b>Koshun Yamaoka</b>, <i>Nagoya University, Japan</i></p> <p>10.20am – 10.40 A potential indicator of earthquake and volcanic eruption - trend changes of resistivity image: evidence from experiments (Paper 95) <b>Tao Zhu</b>, <i>Key Laboratory of Seismic Observation and Geophysical Imaging, Institute of Geophysics, China Earthquake Administration, Beijing, P. R. China</i></p>	<p>9.00am – 9.20am Inclusion of multiple seismic source models in the Australian PSHA (Paper 385) <b>Keynote Mark Leonard</b>, <i>Geoscience Australia, Canberra, ACT, Australia</i></p> <p>9.20am – 9.35am Inclusion of 3<sup>rd</sup> party models &amp; the expert elicitation process (Paper 397) <b>Trevor Allen</b>, <i>Geoscience Australia</i></p> <p>9.35am – 10.40am Discussion</p>
10.40 – 11.10am	<b>MORNING TEA – Foyer 1, Level 1</b>	



11.10am – 12.50pm	<b>Observation &amp; Interpretation 2 (ASC)</b>	<b>Concrete Structures (AEES)</b>
	<b>Room 106</b>	<b>Room 105</b>
	<b>Chair: TBA</b>	<b>Chair: Peter McBean</b>
	<p>11.10am – 11.40am Lithospheric Structures in Yunnan area by using ChinArray Data (Paper 94) <b>Wu Zhongliang/Zhifeng Ding</b></p> <p>11.40am – 12.00am Three-corner representation of earthquake source spectra at Kamchatka (Paper 22) <b>Alexander Gusev</b>, Institute of Volcanology &amp; Seismology FEB Russian Academy of Sciences, Petropavlovsk-Kamchatsky, 683006, Russia</p> <p>12.00pm – 12.20pm Oceania Region Seismic NETwork (ORSNET) (Paper 108) <b>Eslin Garaebiti</b>, Vanuatu</p> <p>12.20pm – 12.40pm Matched Filter Technique for Microearthquake Detections: Recent Development and Future Directions (Paper 75) <b>Zhigang Peng</b>, Georgia Institute of Technology, USA</p> <p>12.40pm – 1.00pm Seismometers &amp; Accelerometers: Are you using the right sensor for the job? (Paper 86) <b>Adam Pascale</b>, Seismology Research Centre, Richmond, Victoria, Australia</p>	<p>11.10am – 11.25am Framework for Seismic Vulnerability Assessment of Reinforced Concrete Buildings in Australia (Paper 377) <b>Hing-Ho Tsang</b> – Swinburne University of Technology, Hawthorn, Victoria, Australia</p> <p>11.25am – 11.40am Displacement Capacity of Lightly Reinforced Rectangular Concrete Walls (Paper 362) <b>Ryan Hoult</b> – The University of Melbourne, Victoria, Australia</p> <p>11.40am – 11.55am Modelling non-ductile reinforced concrete columns (Paper 393) <b>Anita Amirsardari</b> – The University of Melbourne, Victoria, Australia</p> <p>11.55am – 12.10pm Seismic Vulnerability Assessment of Asymmetrical Reinforced Concrete Buildings in Australia (Paper 379) <b>Elisa Lumantarna</b> – The University of Melbourne, Victoria, Australia</p> <p>12.10pm – 12.25pm Analytical Simulation of Limited Ductile RC Beam Columns (Paper 331) <b>Alireza Mehdipanah</b> – The University of Melbourne, Victoria, Australia</p> <p>12.25pm – 12.40pm Behaviour of RC spandrel beam in exterior wide beam-column connections (Paper 348) <b>Hamdolah Behnam</b> - The Hong Kong University of Science and Technology</p> <p>12.40pm – 12.55pm Plastic Hinge Development in Limited Ductile Rectangular Reinforced Concrete Walls (Paper 373) <b>Scott Menegon</b>, Swinburne University of Technology, Hawthorn, Australia</p> <p>12.55pm – 1.10pm Seismic performance of high-rise buildings featuring a transfer plate taking into account displacement-controlled behaviour (Paper 357) <b>Mehair Yacoubian</b>, The University of Melbourne, Parkville, Victoria, Australia</p> <p>1.10pm – 1.25pm <b>CONFERENCE CLOSING / Best Student Paper Award</b></p> <p>1.25pm <b>CONFERENCE CLOSED</b></p>
1.00pm – 2.00pm	<b>LUNCH – Foyer 1, Level 1</b>	

2.00pm – 3.00pm	<b>O &amp; I Magnitude Workshop 1 (ASC)</b>
2.00pm – 3.00pm	<p style="text-align: center;"><b>Room 106</b></p> <p style="text-align: center;"><b>Chair: TBA</b></p> <p>2:10pm - 2:55pm  <b>Alexander Gusev</b> – Magnitudes – Why important, why variety, how to manage</p> <p>2:55pm – 3.15pm  <b>Questions &amp; Answers</b></p> <p>3.15pm – 3.30pm  <b>Trevor Allen, Hadi Ghasemi etc</b></p>
3.30pm – 4.00pm	<b>Afternoon Tea – Foyer 1, Level 1</b>
4.00pm – 5.00pm	<b>Magnitude Workshop 2 (ASC)</b>
4.00pm – 5.20pm	<p style="text-align: center;"><b>Room 106</b></p> <p style="text-align: center;"><b>Chairs: Gary Gibson &amp; Alexander Gusev</b></p> <p>4.00pm – 4.15pm  Local Magnitude Scale for the Philippines: Preliminary Results (Paper 32)  <b>Johnlery Deximo</b>, Philippine Institute of Volcanology and Seismology</p> <p>4.15pm – 4.30pm  DEVELOPMENT OF A MULTIBAND MAGNITUDE SCALE FOR KAMCHATKA (Paper 48)  <b>Danila Chebrov</b>, Kamchatka Branch of Geophysical Survey of RAS</p> <p>4.30pm – 4.45pm  Magnitude – Apples and Pears (Paper AEES 322)  <b>Kevin McCue</b>, Australian Seismological Centre</p> <p>4.45pm – 5.20pm  Discussion</p>
5.20pm – 5.30pm	<b>ASC Meeting Closes</b>
5.30pm	<b>ASC Committee</b>

## ASC Posters

- Paper 8 Recent progress of seismic network in the greater Taipei metropolitan area, Taiwan  
**Win-Gee Huang**, Institute of Earth Sciences, Academia Sinica, Taiwan
- Paper 19 Ellipsoidal volume source calculation webtool for moment tensor evaluation of three models: A Tutorial Guide to Applications  
**Nobuki Kame**, ERI, University of Tokyo, Japan
- Paper 30 Temporary Broadband Seismic Station Deployments in the 21st Century  
**Stephen Kilty**, Nanometrics
- Paper 31 Earthquake Early Warning Systems: Sources of Latency and Associated Design Trade-offs  
**Stephen Kilty**, Nanometrics
- Paper 45 Reservoir Induced Seismic Response in Koyna-Warna, India: Field Observations and Laboratory Modelling  
**Alexander Ponomarev**, IPE RAS, Moscow, Russia
- Paper 78 Developing a Cheap Seismograph  
**David Love**, Geological Survey of South Australia
- Paper 98 Effect of concatenation rupture mode of Xiaojiang fault zone on near-fault long-period ground motion  
**Xueliang Chen**, Institute of Geophysics, China Earthquake Administration
- Paper 103 Quality Control of Observation Data by the Geomagnetic Network of China  
**Suqin Zhang**, Institute of Geophysics, China Earthquake Administration

**Monday 28 November 8.00am – Tuesday 29 November 6.00pm**

**Western Victoria Volcano & Earthquake Field Trip**

**Registration must be made by 17 November via the conference website.**

Depart Melbourne CBD hotels & travel west over volcanic plains to Bacchus Marsh, then over the Rowsley Fault (the most active fault in Western Victoria) to Ballan & Creswick for morning tea. After viewing the diverse range of volcanoes in this region including the historic Deep Lead gold mining area, we travel south through Ballarat to Colac for lunch. An afternoon drive through the main volcanic belt including the Stony Rises, volcanoes & maars at Camperdown and Terang to Tower Hill, concluding at Warrnambool, the site of Victoria's most damaging two earthquakes in 1903, for dinner and overnight accommodation. Depart Warrnambool and travel along the Great Ocean Road and witness the rugged splendour of the famous 12 Apostles off the shore of the Port Campbell National Park. These eight massive limestone stacks (five have fallen since their discovery), rise up majestically 45 metres from the Southern Ocean and are surrounded by majestic cliffs. Twelve Apostles walking tour – Visit to Apostle Whey Cheese. Guided tour & lunch at the Otway Ranges Treetop Walk – A 600 metre long 25 metre high elevated tree top walk ascending at a gentle grade through a magnificent stand of cool temperature rainforest featuring Myrtle Beech, Blackwood and Mountain Ash. The pinnacle of the treetop walk is the 47 metre high lookout which is ascended via a spiral stairway through the understorey to emerge amongst the crowns of the giants of the forest. Drive along the spectacular Great Ocean Road through Lorne and Anglesea to Geelong, passing over the Lovely Banks Fault, and return to Melbourne CBD hotels. This tour includes bus transfers, a guided tour of the Otway Fly, lunches, the walking tour of the 12 Apostles, dinner and overnight accommodation and breakfast in Warrnambool. It will depart on Monday 28 November at 8am and return to Melbourne on Tuesday 29 November at 5pm. Cost: \$370 per person. Partners/Family very welcome.