



Monday, 01 April 2019

BelleVue Ballroom 2				
08:30 Opening Ceremony 08:30				
Keynote Lecture 1				
09:15 360: Geosynthetic-reinforced soil structures for transportation – from walls to bridges Prof Fumio Tatsuoka Professor Emeritus, University of Tokyo and Tokyo University of Science, Japan 09:15				
Morning Tea				
BelleVue Ballroom 2		Meeting Room 1	Meeting Room 2	Meeting Room 3
Concurrent Session 1A - Case Histories		Concurrent Session 1B - Site Investigation	Concurrent Session 1C - Soft Soil Engineering	Concurrent Session 1D - Slopes
119: Dr Doug Stewart Settlement of a multi-storey car park structure on Perth sand		200: Miss Camilla Gibbons Digital geological field data capture and analysis tool	44: Dr Bosco Poon Design techniques drawn from the prediction of embankment behaviour on PVD improved Ballina clay	20: Mr Philip Robins Understanding the mechanisms of a large slow moving landslide in the Manawatu Gorge, New Zealand
10:35		10:35	10:35	10:35
10:50		10:50	10:50	10:50
113: Mr Ross Kristinof Geotechnical challenges and opportunities in solar farm construction		53: Mr Michael Crisp Influence of distance-weighting site investigation samples on foundation performance	110: Dr Bindumadhava Aery Stability of fill embankments on soft marine sediments during construction	80: Dr Peter Chapman A foundation investigation to consider the potential for a 'Mt Polley' type slope failure
11:05		11:05	11:05	11:05
ISSMGE's CAPG Session: Collaboration in Geotechnical Engineering – Impact on Research and Project Delivery Opening briefs: Mr Gavin Alexander (ISSMGE VP Australasia), Mr Kim Chan (GHD and CAPG representative), Prof David Airey (University of Sydney and Vice-Chair of TC306 Geo-education) Panel Moderator: Miss Camilla Gibbons (Aurecon, NZ). Panelists: Prof. Buddhima Indraratna (University of Wollongong), Dr Richard Kelly (SMEC), Mr. Mario Shahmirzayan (Avopiling), Dr. Jeff Hsi (EIC Activities, CIMIC Group), Mr. Sam Henwood (Roads and Maritime Services, NSW) Closure: Mr Sukumar Pathmanandavel (Aurecon and Chair of CAPG)				
12:05 Lunch Break 12:05				
BelleVue Ballroom 2				
Keynote Lecture 2				
13:05 AGS Practitioner Award (2016) Lecture: 364: Trying to make a difference – and why sometimes we can't Mr Rob Day Associate Principal - Geotechnical, Arup 13:05				
BelleVue Ballroom 2		Meeting Room 1	Meeting Room 2	Meeting Room 3
Concurrent Session 2A - Case Histories		Concurrent Session 2B - Earthworks	Concurrent Session 2C - Rock Mechanics and Mining	Concurrent Session 2D - Foundations and Retaining Structures
217: Dr Jan Kupec Resilience approach to foundation design – a client's perspective		197: Mr Mark Drechsler Inland Rail - Earthworks value engineering	73: Dr Harry Saroglou The ARMR classification system and the modified Hoek-Brown failure criterion compared to conventional directional shear strength models for anisotropic rock masses	27: Dr Helen Chow Effects of basement resistance on tall building foundation behaviour
14:00		14:00	14:00	14:00
14:15		14:15	14:15	14:15
134: Mr Strath Clarke Collapse of the old Pacific Highway, Piles Creek, Somersby		190: Ms Natalie Campbell The design evolution of replacement motorway bridge approach embankments	161: Dr Abbas Taheri Improving workability of cement paste backfill using new binders	88: Dr Stanley Yuen What you design is what you get – an economical way to the stability design of propped cantilever walls
14:30		14:30	14:30	14:30
14:45		14:45	14:45	14:45
237: Mr Paul Hewitt Application of soft ground instrumentation and data management system for Woolgoolga to Ballina project, Pacific Highway upgrade		289: Dr Li-Ang Yang Application of Li and Selig railway formation design method to expansive soils	281: Mr Ralph Cammack Torlesse rock mass classification system – Wellington, NZ	95: Mr Strath Clarke Transmission Gully Bridge 20 temporary works
168: Mrs Katie Cook Geotechnical interfaces on Optus Stadium		290: Dr Li-Ang Yang Stress distribution in multi-layered railway formation and subgrade	340: Mr Bohan Huang Coupled discrete element and finite difference modelling of wave propagation across rock mass considering multiple reflections between ground surface and joint	194: Dr Jason Surjadinata Micro pile foundation pull-out interaction with calcareous
15:00		15:00	15:00	15:00
Afternoon Tea				
BelleVue Ballroom 2		Meeting Room 1	Meeting Room 2	Meeting Room 3
Concurrent Session 3A - Offshore and Marine		Concurrent Session 3B - Case Histories	Concurrent Session 3C - Ground Improvement	Concurrent Session 3D - Foundations and Retaining Structures
179: Dr Ian Finnie Design and installation of modu mooring piles using novel drive-drill-drive techniques		118: Mr Adam Kemp Integration of geotechnical models with data visualisation tools for the Ipswich Motorway upgrade – Rocklea to Darra	196: Mr Derek Avalle Comparing the relative merits of dynamic compaction, rapid impact compaction and impact rolling	16: Mr Tiago de Jesus Souza Evaluations of the depth a root-pile and a caisson foundations using the magnetometry test
15:30		15:30	15:30	15:30
15:45		15:45	15:45	15:45
109: Dr Dimitra Zografou An assessment of the traditional geotechnical design method for cyclic loading of shallow foundations		150: Dr Brad Azari Some geotechnical lessons learned on foundation construction of Sydney's tallest building, Crown Sydney Hotel resort	269: Mr Michael Lee Ground treatment of brownfield and compressible subsurface materials for residential redevelopment in Port Adelaide, South Australia using a performance based design	26: Mr David Zhang Design of culvert considering soil-structure interaction
16:00		16:00	16:00	16:00
16:15		16:15	16:15	16:15
126: Dr Shiao Huey Chow Mooring of wave energy system using dynamically installed anchors		69: Mr Bing Lee Geotechnical design and construction of Chandler Highway upgrade project, Melbourne	327: Mr Michal Krzeminski Wide range of application of ground reinforcement by means of rigid inclusions in foundation works	49: Dr Sri Srithar Plugging, set-up effects and load capacity of open-ended steel pipe piles
90: Mr Ioannis Antonopoulos A comparison on coastal seawall and embankment performances		243: Mr Yogeshwaran Arumugam Geotechnical impact assessment and instrumentation monitoring of a multistorey development on a twin rail tunnel at Sydney	357: Dr Sasi Sasiharan Bridging sinkholes using geosynthetic reinforcement	102: Mr Shan Tom Wong Design of retaining walls in expansive clay for the darlington upgrade project in adelaide
223: Mr Joe Tom Generalised drained failure envelopes for pipelines on mobile seabeds		24: Ms Mei Ling Teoh Excavation directly beneath a heritage building with tight settlement limits, Sydney CBD	151: Prof Buddhima Indraratna Advancement in track technology: use of artificial inclusions for stabilising transport infrastructure	127: Mr Su Kwong Tan Design driveability driving and dynamic testing of large diameter close ended steel tube piles for a pedestrian bridge
47: Prof Phillip Watson The Maari WHP foundation - Design, installation and performance		33: Dr Burt Look Geotechnical Basics – Common Practices To Avoid	113: Dr AHM Kamruzzaman Optimisation of bridge approach embankments and retaining wall foundations design using wet soil mixing ground treatment	215: Ms Aparna Aparna Lateral load - deflection profile of cantilever sheet pile wall
16:45		16:45	16:45	16:45
17:00 Welcome Reception 17:00				



Tuesday, 02 April 2019

BelleVue Ballroom 2					
Keynote Lecture 3					
2018 NZGS Geomechanics Award Lecture: 361: Assessment of soil liquefaction: critical factors that make the difference Prof Misko Cubrinovski University of Canterbury, New Zealand					
BelleVue Ballroom 2	Meeting Room 1	Meeting Room 2	Meeting Room 3		
Concurrent Session 4A - Earthquakes	Concurrent Session 4B - Slopes	Concurrent Session 4C - Site Investigation	Concurrent Session 4D - Foundations and Retaining Structures		
08:30				08:30	
09:25	216: Mr Patrick Wong Dynamic replacement - liquefaction mitigation for Hamilton section of Waikato Expressway	10: Mr Neil Bar Examples of sampling theory impact on estimated rock slope failure risks	41: Mr Strath Clarke Development of a safety dynamic cone penetrometer	23: Dr Stuart Colls Adding new levels to old buildings: a case study in foundation assessment	09:25
09:40	163: Prof Russell Green Insights into the liquefaction hazard in Napier and Hastings based on the assessment of data from the 1931 Hawke's Bay, New Zealand, earthquake	9: Dr Jahanzaib Israr Evaluation of internal erosion potential of non-cohesive soils under extreme loading conditions	132: Mr Greg Hackney Yield stress relationships from CPTU for Brisbane holocene clay	82: Mr Mehdi Aghayarzadeh Evaluation of ground vibrations induced by dynamic pile load testing using finite element simulation	09:40
09:55	140: Mr Claudio Cappellaro Liquefaction resistance of Christchurch sandy soil deposits obtained from cyclic direct simple shear tests and cpt-based methods	68: Dr Sudarshan Aryal Structural solution for the stabilisation of a major highway slope - a case study from regional New South Wales	187: Dr Tariq Rahiman Best practices and benefits of borehole imaging in geotechnical site investigations	115: Dr Vipman Tandjiria Assessment of strut load redistribution due to removal of individual strut of an excavation support	09:55
10:10	104: Ms Kuanjin Lee Dynamic characterisation of the Auckland City reclamation zones	162: Mrs Thi Hang Luong Granular flows in forested regions: influence of tree density	198: Mr Romney Rayner Application of innovative geophysical methods to assess reclamation capping	117: Dr Eric Chong Base cleanliness of bored piles revisited - a case study	10:10
10:25	107: Mr Gordon Stevens The performance of modular block walls reinforced with geogrid subject strong ground motions during the 2016 Kaikoura earthquake	278: Mr Jarreau Alinur Probabilistic approach for berth slope instability risk assessment: case study for Port of Brisbane quay line	103: Mr David L Knott Investigation of shallow mine workings for the proposed Newcastle light rail project	160: Dr Chenhui Lee Predicting in-ground buckling instability of the steel H-pile through nonlinear analysis	10:25
10:40	Morning Tea				10:40
Concurrent Session 5A - Ground Improvement	Concurrent Session 5B - Earthquakes	Concurrent Session 5C - Offshore and Marine	Concurrent Session 5D - Foundations and Retaining Structures		
11:10	61: Dr Ching Dai Motorway cut slope and foundation treatment design and construction over loose ground susceptible to liquefaction	173: Prof Russell Green Influence of corrections to recorded peak ground accelerations due to liquefaction on predicted liquefaction response during the 2010-2011 Canterbury, New Zealand, earthquake sequence	70: Mr Wayne Thorburn Remediation of contaminated marine sediments using mudcrete	39: Mr Zhaodong DU Numerical modelling of ram-compacted bearing base piles	11:10
11:25	129: Mr Cor Kin Tsang Artificial ground freezing application for tunnelling works in Hong Kong	143: Mr Riwhaj Dhakal Site characterisation and liquefaction assessment for the reclaimed soils in Centreport, Wellington	89: Mr Ioannis Antonopoulos SH1 realignment - optimisations and innovations on new MSEW seawalls	116: Mr Kam Chew 3D FE analysis of a pile group and embedded spaced bored pile retaining wall in unsaturated soil	11:25
11:40	192: Mr Daniel Sandilands Tauranga crossing ground improvement design and construction, tauranga, new zealand	212: Mr Romain Meite Sensitivity of 1D site response predictions to generic dynamic soil models implemented with high-intensity ground motions in soft soil deposits	114: Mr Charles McDermott Full scale field trials of a MSEW - mass concrete block facing seawall connection system	178: Dr Sajjad Maqbool An innovative approach to modelling braced retention systems in plaxis	11:40
11:55	96: Dr Babak Hamidi Optus Stadium civil enabling works ground improvement project	333: Mr Joseph Owusu Case study-mitigating the effects of liquefaction to Christchurch Rugby League Park Stadium grandstand footing foundation: design and construction observation	167: A/Prof Britta Bienen Suction bucket foundations for offshore renewable energy installations	232: Mr Charin Wongmahasirikun Design and construction of bored piles with friction-reducing sleeves in Mae Moh expansive soils	11:55
12:10	Lunch Break				12:10
BelleVue Ballroom 2					
Keynote Lecture 4					
365: Unexpected ground movements and their impact Dr Doug Stewart Principal Geotechnical Engineer, Golder					
13:10				13:10	
BelleVue Ballroom 2	Meeting Room 1	Meeting Room 2	Meeting Room 3		
Concurrent Session 6A - Site Investigation	Concurrent Session 6B - Ground Improvement	Concurrent Session 6C - Rock Mechanics and Mining	Concurrent Session 6D - Foundations and Retaining Structures		
14:05	52: Dr Richard Kelly Calibration of the helical probe test	175: Mr Andrew Websper Measurement of subsurface vibrations during sinkhole remediation by vibrocompaction, Alkimos, Perth	128: Mr Dylan Hemraj Engineering geological modelling of the precambrian - cenozoic unconformity in the Pilbara and implications to open pit slope design	93: Dr Jit Lim Foundation design and performance of 8,300 tonne storage tanks in Kwinana, WA	14:05
14:20	191: Dr Glen Burton A comparative study between CPT/SDMT data and MASW	25: Dr Khaled Sobhan Use of ca / cc ratio as a criterion for cementitious stabilization of highly organic subgrade soils	182: Mr Mohammad Khoshini Mechanical characterisation of a highly friable weak sandstone	206: Mr Ovidiu Craciun Design and construction challenges of cast-in-place piles in weak rock for a bridge structure at the Gateway Upgrade North project	14:20
14:35	135: Dr Aasha Pancha Multidisciplinary site investigations: geophysical techniques for comprehensive site characterisation and assessment	130: Dr Yaolin Yi Stabilisation/solidification of incineration fly ash (IFA) in cement-stabilized clay	183: Mr Davide Ettore Guccione Experimental study on influence of impact angle on fragmentation of brittle blocks upon dynamic impact	234: Mr Le Doan Shaft capacity of non-displacement piles in silts and clays	14:35
14:50	344: Mr Stuart Ellis Geotechnical investigation and design of pavements for a remote aerodrome in Australia	210: Mr Sean Goodall Geotechnical design of a reinforced soil capping beam over a soil-bentonite barrier wall	225: Dr Chenming Zhang Instrumented column test on the settling, consolidation and desiccation of slurry coal tailings under weather condition	265: Mr Yoon Ken Liew Geotechnical investigation and design of Cape Lambert dolphin piles	14:50
15:05	329: Mr Timothy Thompson The legacy of geotechnical information from the Brisbane Airport Link and Northern Busway project	211: Dr Gabriele Chiaro Direct shear behaviour of gravel-granulated tyre rubber mixtures	266: Mr Mojtaba Mousakhani A study of the sensitivity of rolling behaviour to block shape	293: Mr Craig Butterworth Back analysis of an instrumented CFA pile in Perth sand	15:05
15:20	325: Dr Bari Thomas The use of ground penetrating radar to identify karst terrain features in the Northern Territory	304: Ms Michelle Phillipson Geotechnical aspects and monitoring of ground treatment for Nundah Creek bridge approach embankments	301: Mr Ted Wagborne Regional subsidence in the Latrobe Valley after mine rehabilitation	303: Dr Andrew Lochaden The effect of the horizontal in situ stress field on the performance of a diaphragm wall - a case study from Sydney	15:20
15:35	Afternoon Tea				15:35
BelleVue Ballroom 2	Meeting Room 1	Meeting Room 2	Meeting Room 3		
Concurrent Session 7A - Soft Soil Engineering	Concurrent Session 7B - Unsaturated Soils	Concurrent Session 7C - Pavements	Concurrent Session 7D - Soil Mechanics		
16:05	139: Dr Kejing Chen Wick drained preloading of deep soft clay for an administration building of International Container Terminal project at Melbourne	43: Dr Bosco Poon Design and construction of soil nail wall on the basis of unsaturated soil mechanics	353: Prof Yuxia Hu Re-assessment of TMI based climate zones in metropolitan Perth, WA	65: Dr Mojtaba Kan A fully coupled non-linear dynamic analysis procedure and its verification using benchmark boundary value problems	16:05
16:20	152: Prof Buddhima Indraratna Performance of circular embankment on soft soil facilitated with prefabricated vertical drains (PVDs) under surcharge and vacuum preloading	21: Dr Dominic Lopes Moisture and suction changes pre and post construction in expansive clays during recent extreme climate	298: Dr Srijib Chakrabarti Characterisation of natural bauxite materials for use in remote sealed road pavements in Australia	84: Mrs Rohini Kolapalli Effect of static loading on cyclic liquefaction behaviour: a DEM study	16:20
16:35	157: Dr Kourosh Kianfar Comparison of surcharge and vacuum pressure effects on radial consolidation	22: Mr Rukshan Azoor Using soil moisture retention curves and corrosimetry to characterise the role of soil moisture in underground corrosion	204: Mrs Melisa Parsons Optimised ground treatment of waste fill for road embankments using rapid impact compaction	91: Mr Ioannis Antonopoulos A comparison of finite difference and conventional limit equilibrium methods on embankment design	16:35
16:50	291: Mr Robert Kingsland The Hunter Expressway Buchanan soft soil problem - what to do when settlement exceeds expectations	153: Mr Rajitha Udumburage Investigation of initial water content and surcharge on volume change behaviour of compacted grey vertosol	46: Dr Auckpath Sawangsurriya Analysis of flexible pavement structural responses under the falling weight deflectometer	137: Mr Krishanthan Thevakumar An importance of cyclic principal stress rotation as induced by railway loads	16:50
17:05	221: Mr Viet Nguyen Sportsmans Creek bridge - approach embankment design and construction over 30m thick alluvial flood plain	279: Dr Gareth Swarbrick Incorporation of the stabilising effects of soil suction in railway embankments	57: Mr Farshid Maghool Shear parameters and resilient moduli response of steel slag aggregates as pavement materials	147: Mr Phimmawat Intharachart Influence of intermediate principal stress on stress-strain and strength behavior of silt-clay transition soils	17:05
17:20	30: Mr Henry Zhang Lessons learned from the geotechnical design and construction of a temporary bridge on soft ground	339: Mr Simon Pointon Design and construction of cost-effective 60° revetment walls in unsaturated clay	TBC	176: Mr Hamed Moghaddasi Kelishomi An elasto-plastic constitutive model for the analysis of bonded geomaterials	17:20
17:35	98: Dr Md. Jahangir Alam 2D numerical modeling of sand compaction pile in soft soil under railway embankment	347: Mrs Goinaz Alipour Esgandani Application of bounding surface model for unsaturated soils under cyclic loading	TBC	185: Mr Takatoshi Kiriya Combination numerical technique of particle-based method and mesh-based method for large deformation analysis of geomaterials	17:35
19:00 - 23:00	Conference Gala Dinner Fraser's, Kings Park				19:00 - 23:00



Wednesday, 03 April 2019

BelleVue Ballroom 2					
Keynote Lecture 5					
366: Dealing with the challenges of underground construction Dr Oskar Sigl Managing Director, Geoconsult Asia, Singapore					
BelleVue Ballroom 2	Meeting Room 1	Meeting Room 2	Meeting Room 3		
Concurrent Session 8A - Rock Mechanics and Mining	Concurrent Session 8B - Foundations and Retaining Structures	Concurrent Session 8C - Foundations and Retaining Structures	Concurrent Session 8D - Pavements		
09:00				09:00	
09:55	307: Mr Tim Nash Deterioration of sandstone and shale in tunnels	124: Dr Shiao Huey Chow Cyclic capacity of dynamically installed anchors and plate anchors in clay	233: Dr Mahdi Disfani Application of fibre bragg grating sensor in mini pile performance and behaviour monitoring	37: Mrs Mehrnaz Alibeikloo The effect of impact roller compaction on closed landfill settlements	09:55
10:10	255: Mr James Watton Geotechnical management of large scale slope deformations at the Teal Gold project, WA	245: Dr Wei Dong Guo Modelling piles adjacent to embankment	300: Mr Paul O'Brien Foundation re-use and evaluation of geotechnical parameters for foundations in Sydney sandstone	254: Mr Michael Dobie Working platforms for tracked plant – BR470 design guideline and a revised approach to stabilisation design with multiaxial hexagonal geogrids	10:10
10:25	15: Dr Morteza Ghamgosar Experimental analysis of rock stiffness degradation due to the cyclic loading	324: Mr Firman Siahaan Foundation underpinning for the upgrade of aged culvert under the carriageway of a heavily-trafficked road	358: Mr Richard Flynn Installation effects of CFA piles in soft marine clays	302: Dr Srijib Chakrabarti Effect of construction traffic on sealed crushed limestone pavement overlying sand subgrade in Western Australia	10:25
10:40	Morning Tea			10:40	
BelleVue Ballroom 2	Meeting Room 1	Meeting Room 2	Meeting Room 3		
Concurrent Session 9A - Foundations and Retaining Structures	Concurrent Session 9B - Soft Soil Engineering	Concurrent Session 9C - Case Histories	Concurrent Session 9D - Soil Mechanics		
11:10	201: Dr Burt Look Key elements for the reliable assessment of driven pile capacity	77: Dr Rui Zhong Case studies of an innovative ground improvement method - high vacuum densification method	11: Dr Yun Bai Site investigations and numerical modelling for a major warehouse development in Melbourne	305: A/Prof Yifei Sun Mathematical principle underlying the state-dependent stress-dilatancy of granular soil	11:10
11:25	287: Mr Craig Butterworth Report on instrumented cantilever diaphragm retaining wall in mixed soils	100: Mr Andrew Hutchinson Detailed dredging and bund design over soft ground in a seismically active environment at Lyttelton Port of Christchurch	74: Dr Sudarshan Aryal Role of the geotechnical engineer in a delivery partners' team delivering a major infrastructure project	320: Mr Guan Tor Lim Mechanical behaviour of intact and remoulded calcareous silts	11:25
11:40	331: Prof Barry Lehane Design charts for cantilever walls in Perth sands	111: Dr Vipman Tandjiria Estimation of creep settlement reduction due to surcharging using commercially available software	316: Mr Matthew Haertsch Foundation analysis and ground improvement for industrial high-bay warehouse developments	332: Dr Baki Abdul A critical state approach for liquefaction evaluation of sands containing fines	11:40
11:55	267: Mr Gavin Alexander Base grouting of bored piles on the Hamilton section of the Waikato Expressway project	244: Mrs Krystle-Rae Biram Surcharge design using a probabilistic framework	236: Dr David Oliveira Arncliffe ventilation: challenges of a complex excavation system	350: Dr Ha Bui Meshfree SPH modelling of clayey soils induced by shrinkage	11:55
12:10	166: Mrs Katie Cook Pile design and analysis to incorporate existing and predicted ground movements	356: Mr Frederic Verheyde Pile design using CPT results: the "LPC Method"	263: Mr Michael Salcher Ground response due to temporary pillar removal in motorway caverns in Sydney sandstone	345: Dr Ha Bui Discrete element modelling of damage growth in cemented materials	12:10
12:25	Lunch Break			12:25	
BelleVue Ballroom 2					
Keynote Lecture 6					
The Utility of Critical State Soil Mechanics Mr Mike Jefferies Senior Consultant (Emeritus), Golder Associates, UK					
13:25				13:25	
BelleVue Ballroom 2	Meeting Room 1	Meeting Room 2	Meeting Room 3		
Concurrent Session 10A - Slopes	Concurrent Session 10B - Ground Improvement				
14:30	136: Mr Ian Shipway Judgements of landslide frequency and their effects on risk in the coastal dune systems of South East Queensland	250: Dr Ilhan Chang Microscopic investigation of interparticle-interaction behavior between coarse soil particles and biopolymer	TBC	TBC	14:30
14:45	259: Prof Stephen Fityus Massive landsliding in Narrabeen sandstones in the Watagan region	299: Mr Jawad Zeerak Ground improvement of an old quarry (landfill) using dynamic compaction methods	TBC	TBC	14:45
15:00	284: Dr John Simmons Implications of groundwater pressure models for slope stability assessment	330: Mr Michal Krzeminski Ground modification using mass soil mixing technique in geotechnical engineering.	TBC	TBC	15:00
15:15	247: Mr David Piccolo A cliff regression model to estimate the travel distance distribution of boulder falls and risk to persons and property downslope of the cliff, Sydney, Australia	322: Dr Bari Thomas Reclamation of a pond using sand raining technique	TBC	TBC	15:15
15:30	Afternoon Tea			15:30	
BelleVue Ballroom 2					
Keynote Lecture 7					
367: Effective communication – A critical component of geotechnical engineering Mr Marc Woodward Senior Principal Geotechnical Engineer, CMW Geosciences					
16:00				16:00	
16:55	Award Presentations and Closing Ceremony			16:55	