<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:05</td>
<td><strong>Morning Tea</strong></td>
</tr>
<tr>
<td>10:15</td>
<td><strong>Bellavue Ballroom 2</strong></td>
</tr>
<tr>
<td>11:00</td>
<td>Concurrent Session 1A - Case Histories</td>
</tr>
<tr>
<td>11:15</td>
<td>Concurrent Session 1B - Site Investigation</td>
</tr>
<tr>
<td>11:30</td>
<td>Concurrent Session 1C - Soil Engineering</td>
</tr>
<tr>
<td>11:45</td>
<td>Concurrent Session 1D - Slopes</td>
</tr>
<tr>
<td>12:30</td>
<td><strong>Lunch Break</strong></td>
</tr>
<tr>
<td>13:00</td>
<td><strong>Bellavue Ballroom 2</strong></td>
</tr>
<tr>
<td>13:45</td>
<td>Concurrent Session 2A - Case Histories</td>
</tr>
<tr>
<td>14:00</td>
<td>Concurrent Session 2B - Earthworks</td>
</tr>
<tr>
<td>14:15</td>
<td>Concurrent Session 2C - Rock Mechanics and Mining</td>
</tr>
<tr>
<td>14:30</td>
<td>Concurrent Session 2D - Foundations and Retaining Structures</td>
</tr>
<tr>
<td>15:15</td>
<td><strong>Afternoon Tea</strong></td>
</tr>
<tr>
<td>15:30</td>
<td>Concurrent Session 3A - Offshore and Marine</td>
</tr>
<tr>
<td>15:45</td>
<td>Concurrent Session 3B - Case Histories</td>
</tr>
<tr>
<td>16:00</td>
<td>Concurrent Session 3C - Ground Improvement</td>
</tr>
<tr>
<td>16:15</td>
<td>Concurrent Session 3D - Foundations and Retaining Structures</td>
</tr>
</tbody>
</table>

**Monday, 01 April 2019**

**Bellavue Ballroom 2**

**Concurrent Session 1A - Case Histories**
- Chairperson: Dr Matt Holder
- 119: Dr Doug Stewart - Settlement of a multi-storey car park structure on Perth sand
- 200: Miss Camilla Gibbons - Design technique drawn from the prediction of embankment behaviour on PYD improved Babbage clay
- 44: Mr Kim Chan - Stability of fill embankments on soft marine sediments during construction
- 20: Mr Philip Robins - Understanding the mechanisms of a large slope moving landslide in the Manawatu Gorge, New Zealand

**Concurrent Session 1B - Site Investigation**
- Chairperson: Anna Skjegstad
- 133: Mr Ross Kristoff - Geotechnical challenges and opportunities in solar farm construction
- 53: Mr Michael Crisp - Influence of disturbance-weighting site investigation samples on foundation performance
- 110: Dr Bindumadhava Aary - Stability of fill embankments on soft marine sediments during construction
- 80: Dr Brendan Cummins - A foundation investigation to consider the potential for a ‘M-Pilly’ type slope failure

**Concurrent Session 1C - Soil Engineering**
- Chairperson: Prof John Carlier
- 223: Mr Joe Tom - Generalised drained failure envelopes for pipelines on mobile seabed
- 47: Prof Philip Watson - A case study on slope failures using combination of soil nailing and ground-anchors methods
- 33: Dr Burk Leit - Geotechnical Basics – Common Practices To Avoid
- 113: Dr ARML Kouroumas - Advancement of bridge approach embankments and retaining wall foundations design using wet soil mixing ground treatment

**Concurrent Session 1D - Slopes**
- Chairperson: Adrian Troy
- 20: Mr Philip Robins - Understanding the mechanisms of a large slope moving landslide in the Manawatu Gorge, New Zealand
- 223: Mr Joe Tom - Generalised drained failure envelopes for pipelines on mobile seabed
- 33: Dr Burk Leit - Geotechnical Basics – Common Practices To Avoid
- 113: Dr ARML Kouroumas - Advancement of bridge approach embankments and retaining wall foundations design using wet soil mixing ground treatment

**Concurrent Session 2A - Case Histories**
- Chairperson: Stephen Drummond
- 217: Mr Dominik Mahoney - Resilience approach to foundation design – a client’s perspective
- 197: Dr Richard Kelly - Inland Rail - Earthworks value engineering
- 198: Mr Chris Briggs - The design evolution of replacement motorway bridge approach embankments
- 181: Dr Abbas Tahir - Improving workability of cement paste based using new binders
- 27: Dr Helen Chow - Effects of basement resistance on tall building foundation behaviour

**Concurrent Session 2B - Earthworks**
- Chairperson: Alisa Cruickshank
- 134: Mr Strath Clarke - Collapse of the old Pacific Highway, Piles Creek, Somersby
- 209: Mr Vincent Blanchet - Application of Li and Selig railway formation design method to expensive soils
- 281: Mr Ralph Camenack - Torreiras rock mass classification system – Wellington, NZ
- 194: Dr Jason Surgodinadas - Micro pile foundation pull-out interaction with calcareous

**Concurrent Session 2C - Rock Mechanics and Mining**
- Chairperson: Alisa Cruickshank
- 237: Mr Paul Hewitt - Application of soft ground instrumentation and data management system for Windgates to Ballina project, Pacific Highway Upgrade
- 190: Mr Chris Briggs - The design evolution of replacement motorway bridge approach embankments
- 181: Dr Abbas Tahir - Improving workability of cement paste based using new binders
- 27: Dr Helen Chow - Effects of basement resistance on tall building foundation behaviour

**Concurrent Session 2D - Foundations and Retaining Structures**
- Chairperson: Dr Ching Dai
- 90: Ms Shokoufeh Sadeghifard - Collapse of the old Pacific Highway, Piles Creek, Somersby
- 200: Miss Camilla Gibbons - Design technique drawn from the prediction of embankment behaviour on PYD improved Babbage clay
- 161: Dr Abbas Tahir - Improving workability of cement paste based using new binders
- 55: Mr Max Thomas - Improving workability of cement paste based using new binders
- 27: Dr Helen Chow - Effects of basement resistance on tall building foundation behaviour

**Concurrent Session 3A - Offshore and Marine**
- Chairperson: Britt Bieren
- 179: Dr Ian Finnie - Design and installation of mud monorail systems using novel drive/drilt-drive techniques
- 178: Dr Ian Finnie - Design and installation of mud monorail systems using novel drive/drilt-drive techniques
- 177: Dr Ian Finnie - Design and installation of mud monorail systems using novel drive/drilt-drive techniques
- 176: Dr Ian Finnie - Design and installation of mud monorail systems using novel drive/drilt-drive techniques
- 175: Dr Ian Finnie - Design and installation of mud monorail systems using novel drive/drilt-drive techniques

**Concurrent Session 3B - Case Histories**
- Chairperson: Kate Cook
- 118: Mr Adam Kemp - Integration of geotechnical models with data visualisation tools for the Ipswich Motorway upgrade – Rocklea to Darra
- 198: Mr Derek Aravil - Comparing the relative merits of dynamic compaction, rapid impact compaction and impact rolling
- 190: Mr Adam Kemp - Integration of geotechnical models with data visualisation tools for the Ipswich Motorway upgrade – Rocklea to Darra
- 198: Mr Derek Aravil - Comparing the relative merits of dynamic compaction, rapid impact compaction and impact rolling
- 215: Ms Aparna Aparna - Construction of large span shallow tunnels: a case study from the new M5, Sydney

**Concurrent Session 3C - Ground Improvement**
- Chairperson: Stuart Ellis
- 126: Dr Shiao Huey Chou - Monitoring of wave energy system using dynamically installed anchors
- 69: Mr Bing Lee - Geotechnical design and construction of Chandler Highway upgrade project, Melbourne
- 227: Mr Eric Lin - Wide range of application of ground reinforcement by means of rigid inclusions in foundation works
- 227: Mr Eric Lin - Wide range of application of ground reinforcement by means of rigid inclusions in foundation works
- 227: Mr Eric Lin - Wide range of application of ground reinforcement by means of rigid inclusions in foundation works

**Concurrent Session 3D - Foundations and Retaining Structures**
- Chairperson: Dr Jay Abeyaratne
- 223: Mr Joe Tom - Generalised drained failure envelopes for pipelines on mobile seabed
- 47: Prof Philip Watson - Geotechnical Basics – Common Practices To Avoid
- 33: Dr Burk Leit - Geotechnical Basics – Common Practices To Avoid
- 113: Dr ARML Kouroumas - Advancement of bridge approach embankments and retaining wall foundations design using wet soil mixing ground treatment
- 282: Mr Robert Anderson - Construction of large open shallow tunnels: a case study from the new M5, Sydney

**Welcome Reception**

Program current as of 20/03/2019 and is subject to change.
Multidisciplinary site investigations: geophysical techniques for obtaining from cyclic direct simple shear tests and cpt-based MASW

A comparative study between CPT/SDMT data and MASW

The use of ground penetrating radar to identify karst terrain

Dynamic characterisation of the Auckland City reclamation construction over loose ground susceptible to liquefaction

Motorway cut slope and foundation treatment design and construction over voided soft soils

Site characterisation and liquefaction assessment for the proposed Auckland International Container Terminal project at Waitemata Harbour, Auckland

Liquefaction resistance of Christchurch sandy soil deposits

Investigation of shallow mine workings for the proposed Newcastle light rail project

Dynamic replacement - liquefaction mitigation for Hamilton

The performance of modular block walls with restrained vertical movement under railway embankment

Weak subgrade treatment using geogrid reinforcement

Geotechnical aspects and monitoring of ground treatment for structural solution for the stabilisation of a major highway embankments

Using soil moisture retention curves and corrosimetry to design and construction of soil nail wall on the basis of simplified step path method

Analysis of flexible pavement structural responses under the influence of moisture and asphalt mixture

Yield stress relationships from CPTU for Brisbane holocene clays

Measurement of subsurface vibrations during sinkhole fragmentation of brittle blocks upon dynamic impact

Experimental study on influence of impact angle on fragmentation of brittle blocks under dynamic impact

Best practices and benefits of borehole imaging in geotechnical site investigations

A comparision of finite difference and conventional limit equilibrium analysis procedures for geotechnical site investigations

Afternoon Tea

Digital Poster Session

A fully coupled non-linear dynamic analysis procedure and its verification using benchmark boundary value problems

Combination numerical technique of particle-based method and mesh-based method for large deformation analysis of geomaterials

Analysis of particle-scale responses to pressure and shear in soft and medium dense sand and matrix bonded silt

A comparison of non-linear geotechnical analysis techniques for application in hazardous geotechnical problems

The effect of the horizontal in situ stress field on the strength behavior of silt-clay transition soils

A comparison of finite difference and conventional limit equilibrium analysis procedures for geotechnical site investigations

Afternoon Tea

Chairperson: Prof Stephen Yu

Chairperson: Prof Man Foo

Chairperson: Prof Peter Hunter

Chairperson: Prof Anthony Doherty

Chairperson: Prof Stephen Yu

Chairperson: Prof Man Foo

Chairperson: Prof Peter Hunter

Chairperson: Prof Anthony Doherty

Chairperson: Prof Stephen Yu

Chairperson: Prof Man Foo

Chairperson: Prof Peter Hunter

Chairperson: Prof Anthony Doherty

Chairperson: Prof Stephen Yu

Chairperson: Prof Man Foo

Chairperson: Prof Peter Hunter

Chairperson: Prof Anthony Doherty

Chairperson: Prof Stephen Yu

Chairperson: Prof Man Foo

Chairperson: Prof Peter Hunter

Chairperson: Prof Anthony Doherty

Chairperson: Prof Stephen Yu

Chairperson: Prof Man Foo

Chairperson: Prof Peter Hunter

Chairperson: Prof Anthony Doherty

Chairperson: Prof Stephen Yu

Chairperson: Prof Man Foo

Chairperson: Prof Peter Hunter

Chairperson: Prof Anthony Doherty

Chairperson: Prof Stephen Yu

Chairperson: Prof Man Foo

Chairperson: Prof Peter Hunter

Chairperson: Prof Anthony Doherty

Chairperson: Prof Stephen Yu

Chairperson: Prof Man Foo

Chairperson: Prof Peter Hunter

Chairperson: Prof Anthony Doherty

Chairperson: Prof Stephen Yu

Chairperson: Prof Man Foo

Chairperson: Prof Peter Hunter

Chairperson: Prof Anthony Doherty

Chairperson: Prof Stephen Yu

Chairperson: Prof Man Foo

Chairperson: Prof Peter Hunter

Chairperson: Prof Anthony Doherty

Chairperson: Prof Stephen Yu

Chairperson: Prof Man Foo

Chairperson: Prof Peter Hunter

Chairperson: Prof Anthony Doherty

Chairperson: Prof Stephen Yu

Chairperson: Prof Man Foo

Chairperson: Prof Peter Hunter

Chairperson: Prof Anthony Doherty

Chairperson: Prof Stephen Yu

Chairperson: Prof Man Foo

Chairperson: Prof Peter Hunter

Chairperson: Prof Anthony Doherty

Chairperson: Prof Stephen Yu

Chairperson: Prof Man Foo

Chairperson: Prof Peter Hunter

Chairperson: Prof Anthony Doherty

Chairperson: Prof Stephen Yu

Chairperson: Prof Man Foo

Chairperson: Prof Peter Hunter

Chairperson: Prof Anthony Doherty

Chairperson: Prof Stephen Yu

Chairperson: Prof Man Foo

Chairperson: Prof Peter Hunter

Chairperson: Prof Anthony Doherty

Chairperson: Prof Stephen Yu

Chairperson: Prof Man Foo

Chairperson: Prof Peter Hunter

Chairperson: Prof Anthony Doherty

Chairperson: Prof Stephen Yu

Chairperson: Prof Man Foo

Chairperson: Prof Peter Hunter

Chairperson: Prof Anthony Doherty

Chairperson: Prof Stephen Yu

Chairperson: Prof Man Foo

Chairperson: Prof Peter Hunter

Chairperson: Prof Anthony Doherty

Chairperson: Prof Stephen Yu

Chairperson: Prof Man Foo

Chairperson: Prof Peter Hunter

Chairperson: Prof Anthony Doherty

Chairperson: Prof Stephen Yu

Chairperson: Prof Man Foo

Chairperson: Prof Peter Hunter

Chairperson: Prof Anthony Doherty

Chairperson: Prof Stephen Yu

Chairperson: Prof Man Foo

Chairperson: Prof Peter Hunter

Chairperson: Prof Anthony Doherty

Chairperson: Prof Stephen Yu

Chairperson: Prof Man Foo

Chairperson: Prof Peter Hunter

Chairperson: Prof Anthony Doherty

Chairperson: Prof Stephen Yu

Chairperson: Prof Man Foo

Chairperson: Prof Peter Hunter

Chairperson: Prof Anthony Doherty

Chairperson: Prof Stephen Yu

Chairperson: Prof Man Foo

Chairperson: Prof Peter Hunter

Chairperson: Prof Anthony Doherty

Chairperson: Prof Stephen Yu

Chairperson: Prof Man Foo

Chairperson: Prof Peter Hunter

Chairperson: Prof Anthony Doherty

Chairperson: Prof Stephen Yu

Chairperson: Prof Man Foo

Chairperson: Prof Peter Hunter

Chairperson: Prof Anthony Doherty

Chairperson: Prof Stephen Yu

Chairperson: Prof Man Foo

Chairperson: Prof Peter Hunter

Chairperson: Prof Anthony Doherty

Chairperson: Prof Stephen Yu

Chairperson: Prof Man Foo

Chairperson: Prof Peter Hunter

Chairperson: Prof Anthony Doherty

Chairperson: Prof Stephen Yu

Chairperson: Prof ManFoo
**Wednesday, 03 April 2019**

### BelleVue Ballroom 2

**Chairperson:** Prof Barry Lehane

**Keynote Lecture 5**

#### Concurrent Session 8A - Rock Mechanics and Mining

**Chairperson:** Ms Sukadevi Subadjitaward

1. **10:40**
   - **Dr Morteza Ghamgosar**
   - Experimental analysis of rock stiffness degradation due to the cyclic loading

**Meeting Room 1**

**Chairperson:** Ms Alison Jennings

1. **11:15**
   - **Dr Yun Bai**
   - Case studies of an innovative ground improvement method: high vacuum densification system

2. **11:20**
   - **Mr Andrew Hutchinson**
   - Design charts for cantilever walls in Perth sands

3. **11:25**
   - **Mr Ian Shipway**
   - Key elements for the reliable assessment of driven piles

4. **11:30**
   - **Mr Than Phadnis**
   - Site investigations and numerical modeling for a major warehouse development

5. **11:35**
   - **Mr Matthew Haertsch**
   - Estimation of creep settlement reduction due to surcharging using commercially available software

### Meeting Room 2

**Chairperson:** Dr Chaminda Gallage

1. **11:45**
   - **12:00**
   - **12:15**
   - **12:30**
   - **12:45**
   - **12:50**
   - **13:05**

#### Concurrent Session 8B - Foundations and Retaining Structures

**Chairperson:** Prof Mark Rendell

1. **10:45**
   - **Mr Andrew Hutchinson**
   - Key elements for the reliable assessment of driven piles

2. **10:50**
   - **Mr Than Phadnis**
   - Site investigations and numerical modeling for a major warehouse development

3. **10:55**
   - **Mr Matthew Haertsch**
   - Estimation of creep settlement reduction due to surcharging using commercially available software

**Meeting Room 3**

**Chairperson:** Dr Alison Jennings

1. **11:00**
   - **Mr Robert Green**
   - Design charts for cantilever walls in Perth sands

2. **11:05**
   - **Mr Andrew Hutchinson**
   - Design charts for cantilever walls in Perth sands

3. **11:10**
   - **Mr Ian Shipway**
   - Key elements for the reliable assessment of driven piles

4. **11:15**
   - **Mr Than Phadnis**
   - Site investigations and numerical modeling for a major warehouse development

5. **11:20**
   - **Mr Matthew Haertsch**
   - Estimation of creep settlement reduction due to surcharging using commercially available software

### Morning Tea

- **10:40**
- **10:45**
- **10:50**
- **10:55**
- **11:00**
- **11:05**
- **11:10**
- **11:15**
- **11:20**
- **11:25**
- **11:30**
- **11:35**
- **11:40**
- **11:45**
- **12:00**
- **12:05**
- **12:10**
- **12:15**
- **12:20**
- **12:25**
- **12:30**
- **12:35**
- **12:40**
- **12:45**
- **12:50**
- **12:55**
- **13:00**
- **13:05**
- **13:10**
- **13:15**
- **13:20**
- **13:25**
- **13:30**
- **13:35**
- **13:40**
- **13:45**
- **13:50**
- **13:55**
- **14:00**
- **14:05**
- **14:10**
- **14:15**
- **14:20**
- **14:25**
- **14:30**
- **14:35**
- **14:40**
- **14:45**
- **14:50**
- **14:55**
- **15:00**
- **15:05**
- **15:10**
- **15:15**
- **15:20**
- **15:25**
- **15:30**
- **15:35**
- **15:40**
- **15:45**
- **15:50**
- **15:55**
- **16:00**
- **16:05**
- **16:10**
- **16:15**
- **16:20**
- **16:25**
- **16:30**
- **16:35**
- **16:40**
- **16:45**
- **16:50**
- **16:55**

### Lunch Break

- **12:25**

#### Digital Poster Session

**Chairperson:** Dr Doug Stewart

- **13:25**

### Afternoon Tea

- **15:30**

### Award Presentations and Closing Ceremony

- **16:55**