

NOTICE OF 2016 ANNUAL GENERAL MEETING

The 2016 AGM of the Society will be held in Auckland:

Date : Tuesday 8th March 2016
Time : 6.00pm (Prior to Auckland Branch Presentation)
Venue : University of Auckland, Engineering Room 3.404

AGENDA

1. Apologies
2. Confirmation of Minutes of 2015 AGM
3. Matters arising from the Minutes
4. Presentation and adoption of Chair's Report – Charlie Price
5. Presentation and adoption of Statement of Accounts – Tony Fairclough
6. Confirmation of 2016 Management Committee
7. General Business

Should you be unable to attend please complete the attached proxy voting form and pass on to another Society member who you believe will use the vote in your best interests.

Enclosures

- Voting Proxy form
- Minutes of 2015 AGM
- Chair's Report
- Treasurer's Report
- Unconfirmed 2016 Management Committee



**NEW ZEALAND
GEOTECHNICAL
SOCIETY INC**

A Collaborating Technical Society
of The Institution of Professional
Engineers New Zealand

PROXY VOTING FOR THE ANNUAL GENERAL MEETING TO BE HELD ON 8th March 2016

I, _____, as a financial member of the New Zealand
(your name)

Geotechnical Society give my proxy vote to _____.
(Name of person to vote on your behalf
Person must be in attendance at meeting)

Signed _____

Name _____
(Print clearly)

Date _____

This form must be either sent to reach the Secretary by 4th March 2016 or handed to the Secretary at the beginning of the meeting.

Management Secretary
248 Shaw Road
Oratia
Auckland 0604
Email: secretary@nzgs.org

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Wellington Central
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NEW ZEALAND**

e secretary@nzgs.org
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ISSMGE *Outstanding Member Society*

**MINUTES OF THE ANNUAL GENERAL MEETING
OF THE NEW ZEALAND GEOTECHNICAL SOCIETY INC.**

**HELD AT THE UNIVERSITY OF CANTERBURY
Lecture Theatre C2
on 17th March 2015 at 6.00pm**

1. PRESENT :

Amanda Blakey	Frances Neeson	David Burns
Charlie Price	Ken Read	Guy Cassidy
Gavin Alexander	Tony Fairclough	Kevin Anderson
Stuart Read	Gilles Seve	Sally Hargraves
Joyce Seale	David Bell	Mike Jacka
Nick Traylen	Ferry Haryono	Romy Ridl
Ros Hunter	Ian McCahon	Graham Brown
Olivia Ellis-Garland	Regan King	Neil Charters
Mike Pretty	Jed Watts	Anna Winkley
Ryan Reed	E Creek	Scott McHardy
Jacob Risken	Sam Glue	Hamish Cattell
Shamus Wallace	Timothy Howard	Ashley Coutts
Dylan Meehan	Shael Monk-Fromont	

2. APOLOGIES :

Rolando Orense	Mark Kiryakos	Gordon Ashby
Andrew Palmer	Namir N. Amso	Kate Williams
Alton England	Geoff Farquhar	
Riley Gerbrandt (proxy Ken Read)		
Phil Robins (proxy Gavin Alexander)		

3. MINUTES OF 2014 AGM

Motion put that Minutes of 2014 meeting be adopted as a true and correct record.

Moved Kevin Anderson
Seconded Tony Fairclough
Motion carried

4. MATTERS ARISING

There were no matters arising.

**5. PRESENTATION AND ADOPTION OF CHAIR'S
REPORT FOR 2014-2015**

Report prepared by Gavin Alexander and attached to Notice of Meeting.

Highlights of the written and verbal report:-

- Gavin acknowledged the efforts of the current committee, branch coordinators and society members with particular roles and responsibilities, the Society Secretary, and Charlie Price;
- Gavin noted that Geomechanics News goes from strength to strength, with the results of last year's readers' survey being used to re-shape the bulletin;
- Gavin highlighted that the 10th YGP - Noosa, hosted by the AGS in September, was a great success and congratulated all participants, the YGP Fellowship winner, David Buxton and runner-up, Elby Tang. Thanks also to NZGS Mentor, Tony Fairclough, and to long-standing sponsors, EQC for support.
- The 12th Australia New Zealand Conference in Wellington was an outstanding success. Thanks to Guy Cassidy, Graham Ramsay, Lucy McChesney (nee Coe), Pierre Malan, Beverley Curley and last minute ring-in Doug Mason. There are others who have also contributed, and some who offered to help but struggled to find the time. These events do take a huge effort, and our Society expects a lot of those who volunteer to help. Thank you all.
- John Wood's Geomechanics lecture was widely toured around the country and very well received. Thank you John

for all your work and effort you put into preparing your lecture which was enlightening and stimulating.

- Gavin thanked the Society for the opportunity and honour of representing its interests as committee Chair for the past two years. He is looking forward to supporting Charlie and the incoming committee and continuing with some projects as Immediate Past Chair.

Motion put that the Chair's report be accepted.

Moved David Burns
Seconded Sally Hargraves
Motion carried

6. MATTERS ARISING FROM THE CHAIR'S REPORT

There were no matters arising.

7. PRESENTATION AND ADOPTION OF ACCOUNTS

Report prepared and presented by the Treasurer, Charlie Price, at the Meeting.

Income for the 2013/14 year was \$265,169 and expenditure \$204,541, giving a surplus of \$60,628. The very healthy surplus is due to the return of \$95,347 from the Queenstown conference, which returned a surplus of \$85,000 to the society, slightly higher than budgeted for in the 2013-14 accounts. The symposium committee is again congratulated on this result.

The bulk of the society's outgoings continue to be expended annually on membership of the International Societies (\$29,993), publication of Geomechanics News (\$42,774), secretarial expenses (\$29,861), management committee expenses (\$16,077) and vice president travel costs (\$8,174). The Geomechanics News costs include some special expenses in 2014 to cover the launch of the new

tablet edition of the bulletin, a new layout of the paper copy and digitization of back issues, all of which we consider valuable assets for the future. These items between them account for nearly 75% of the society's annual income (excluding the conference surplus), and underpin the society's basic activities.

Income from membership subscriptions for the 2014/15 budget is based on June 2014 numbers (1071). The budgeted deficit for this year is due mainly to the allowance of further seed funding for the 6ICEGE conference, which is now unlikely to be required.

Motion put that the Treasurer's report be accepted.

Moved Guy Cassidy
Seconded David Bell
Motion carried

8. CONFIRMATION OF 2015 MANAGEMENT COMMITTEE

The following **Management Committee** was confirmed:

Amanda Blakey	Secretary (appointed position)
Charlie Price	Chair
Tony Fairclough	Treasurer, Vice-Chair
Guy Cassidy	Committee Member
Kevin Anderson	Committee Member
Sally Hargraves	Committee Member
Ken Read	Committee Member
Frances Neeson	Co-opted YGP Representative
Ross Roberts	Co-opted Co-Editor NZ Geomechanics News
Kelly Walker	Co-Editor NZ Geomechanics News

Ex officio

Gavin Alexander Immediate Past-Chair
Mark Eggers Australasian Vice-President IAEG
Prof. Mark Jaksa Australasian Vice-President ISSMGE
Stuart Read Australasian Vice-President ISRM

Motion to confirm 2015 Management Committee

Moved Sally Hargraves
Seconded Sam Glue
Motion carried

9. NZGS RULES UPDATE

David Burns addressed the members on points that require updating in the Society's Rules (beyond typing errors). These included the provision for the Treasurers' role, compliance with Rules (ethics) and provision for long service members.

Motion put that the revised Rules be accepted

Moved Gavin Alexander
Seconded Ken Read
Against – none
For – all
Motion unanimously carried

Copy of revised rules attached.

10. GENERAL BUSINESS

None

Meeting closed 6.40pm

G Alexander (Chair):



Date:

25.2.16

RULES OF THE NEW ZEALAND GEOTECHNICAL SOCIETY INCORPORATED

A Collaborating Technical Society of the Institution of Professional Engineers New Zealand Inc

SECTION 1 INTERPRETATION

- 1.1 The Society shall be named 'The New Zealand Geotechnical Society Incorporated', hereinafter referred to as "the Society".
- 1.2 Where the terms "the Management Committee", "Chair", "Management Secretary" or "Treasurer" appear in these Rules, they shall refer to either committees or officers of the Society.
- 1.3 Where the term "Institution" appears in these Rules, it shall refer to the Institution of Professional Engineers New Zealand Incorporated.
- 1.4 Where the term "International Societies" appears in these Rules, it shall refer collectively to the International Society for Soil Mechanics and Geotechnical Engineering, the International Society for Rock Mechanics, and the International Association for Engineering Geology and the Environment.

SECTION 2 OVERVIEW OF THE SOCIETY

- 2.1 The Society was originally formed to represent the International Society for Soil Mechanics and Geotechnical Engineering in New Zealand. Subsequently the Society also became the official body in New Zealand for the International Society for Rock Mechanics and International Association for Engineering Geology and the Environment. The Society participates in the various activities of these International Societies, which are all based on the advancement of education, understanding and application of the respective disciplines. The Society has a close working relationship with the Australian Geomechanics Society and together they form the Australasian region of the International Societies.
- 2.2 The Society is affiliated to the Institution as one of its Collaborating Technical Societies. This means that it provides activities in geotechnical engineering and geoscience to the Institution's learned societies. The Society has close links to the Institution and will endeavour to maintain those ties through its consistent participation in the Institution's activities.
- 2.3 The Society seeks through its activities to promote objects as listed below. For example, it seeks to promote the study and knowledge of geotechnical engineering and geoscience, to disseminate that knowledge and to provide a forum for those interested in the field to communicate among themselves and with others outside the field in an effort to promote education and the advancement of both geotechnical engineering and geoscience. The Society's activities include for example, publications and holding technical meetings and conferences.

SECTION 3 PURPOSE OF THE SOCIETY

- 3.1 The objects of the Society are:
 - a) To advance the education and application of soil mechanics, rock mechanics and engineering geology among engineers and scientists.
 - b) To advance the practice and application of these disciplines in engineering.
 - c) To implement the statutes of the respective International Societies in so far as they are applicable in New Zealand.
 - d) To ensure that the learning achieved through the above objectives is communicated to the public as is appropriate.

SECTION 4 QUALIFICATION FOR MEMBERSHIP

- 4.1 Membership of the Society shall comprise engineers and geoscientists, and others who have suitable qualification or experience, who are interested in the practice and application of soil mechanics, rock mechanics and engineering geology in engineering. On election each full member must affiliate to at least one of the International Societies.
- 4.2 Membership of the Society is also open to bona-fide full-time students of any tertiary institution in New

Zealand who have an interest in the practice or application of soil mechanics, rock mechanics and engineering geology in engineering. Any such student member shall be encouraged to affiliate to at least one of the International Societies.

- 4.3 Life Membership may be conferred on any person as an honour for service to the Society, whether or not he or she is a current member. Nominations shall be submitted to the Management Committee for consideration and the name of any prospective Life Member circulated to members not less than fourteen days prior to the General Meeting at which such election is to take place.

A life member shall not be required to pay a subscription except where an affiliation to an International Society is desired, but in all other respects shall have the rights and restrictions relating to members.

- 4.4 Long Service Membership may be conferred on any person who has been a full member of the Society for a continuous period in excess of 40 years. Short breaks in the continuity of membership may be waived at the discretion of the Management Committee. Applications for Long Service Membership shall be made by the member to the Secretary.

A Long Service member shall not be required to pay a subscription except where an affiliation to an International Society is desired, but in all other respects shall have the rights and restrictions relating to members.

- 4.5 Members of the Australian Geomechanics Society as well as New Zealand Libraries may apply to receive all publications of the Society at a subscription rate determined by the Society.

SECTION 5 APPLICATION FOR AND ELECTION TO MEMBERSHIP

- 5.1 All applications for membership of the Society shall be on the appropriate form published by the Society. Each applicant for membership shall on request supply details of their professional qualifications, address and field of interest in geotechnical engineering. Each applicant must specify the International Society or Societies to which they wish to affiliate, as required by these rules, but may change affiliation on request (refer however to Clauses 9.2 and 9.3 of these Rules regarding subscriptions).
- 5.2 In the case of a Student Member the application must also be countersigned by the student's Supervisor of Studies who thereby certifies that the applicant is indeed a bone fide full-time student of that Tertiary institution. Membership as a student will expire at the end of the financial year in which the student completes his or her studies or ceases to be a full-time student of any Tertiary institution.
- 5.3 Admission to membership of the Society shall be subject to the approval of the Management Committee.

SECTION 6 RESIGNATION AND RE-ADMISSION

- 6.1 Each member, by notice in writing to the Society may resign their membership after payment of all sums due and owing in respect of subscriptions or otherwise.
- 6.2 Each person who has ceased to be a member may apply at any time for re-admission and the Management Committee may approve re-admission under such conditions as it may see fit to impose.

SECTION 7 MANAGEMENT OF THE SOCIETY

- 7.1 The affairs of the Society shall be managed by the Management Committee.
- 7.2 The Management Committee shall comprise no fewer than seven and not more than ten members of the Society. The minimum of seven members shall comprise the Management Secretary and six persons elected by the members of the Society. In addition, the Management Committee may co-opt up to 3 additional members to carry out specific tasks and/or give the Committee a better balance in field of interest, occupational or regional classification.

At the time of calling for nominations for election to the Management Committee it shall be brought to the attention of the Society membership that the representation on the Committee should be maintained as broad as possible both geographically and between engineers and geoscientists.

- 7.3 No fewer than three members of the Management Committee shall be full members of the Institution.

- 7.4 In addition to the elected and co-opted members, the Management Committee shall include the following ex-officio members:
- The Vice-President for the time being of the Australasian region of the International Society for Soil Mechanics and Geotechnical Engineering
 - The Vice-President for the time being of the Australasian region of the International Society for Rock Mechanics.
 - The Vice-President for the time being of the Australasian region of the International Association for Engineering Geology and the Environment.
 - The immediate past Chair of the Management Committee for the two years following his/her period as Chair.
- 7.5 The Chair of the Management Committee shall be elected by and from the members of the Management Committee for a two year term. No person shall hold the office of Chair for more than two consecutive terms.
- If the Chair is elected:
- after having served 1 year of the 2 year term as an elected member, that person shall automatically be re-elected as a member of the Committee for a further 2 year term after serving 1 year as Chair. After finishing the role of Chair the member shall serve the remaining year on the committee as an elected member concurrently with the position of Immediate past Chair.
 - and is commencing the 2 year term as an elected member, the member shall on finishing the role of Chair serve as an ex-officio member of the committee in the position of immediate past Chair.
- 7.6 A Vice-Chair of the Management Committee shall be elected by and from the members of the Management Committee for a one or two year term. No person shall hold the office of "Vice-Chair" for more than two consecutive two year terms (i.e four consecutive years).
- 7.7 A Treasurer shall be elected by and from the Management Committee for a one or two year term. No person shall hold the office of Treasurer for more than two consecutive terms. The roles of Vice-chair and Treasurer may be held concurrently by a committee member. The role of Treasurer shall not be held concurrently by the Chair.
- 7.8 The Management Secretary shall be appointed by the Management Committee for a two year term and may be re-appointed for any number of consecutive years. The Management Secretary may be remunerated for services subject to an employment contract or an agreement for services.
- 7.9 Each elected member of the Management Committee shall be elected to serve for two years. Three of the 6 elected members shall be elected each year.
- 7.10 Each co-opted member of the Management Committee shall be appointed to serve for one year.
- 7.11 Elected and co-opted members may only serve for 6 consecutive years but are eligible for re-election or re-cooption after at least a one-year stand down period. Only a member in the role of Chair or immediate past Chair may serve up to two years beyond this limit in order to complete the terms of office as Chair and immediate past Chair.
- 7.12 The Management Committee may fill a casual vacancy including a vacancy not filled at an election. Each member appointed to fill such vacancy shall hold office for the remainder of the term of the member of the Committee whom he or she replaces or for the term of the vacancy.
- 7.13 All members of the Management Committee shall have equal voting rights irrespective of whether the members are elected, co-opted, appointed or ex-officio.
- 7.14 Nominations in writing for elected members of the Management Committee shall be on a form supplied by the Society and must be signed by the member nominated and two other financial members. A ballot will be held where the number of nominations exceeds the number of vacancies. The ballot shall be held prior to the Annual General Meeting by electronic voting. Postal voting shall be by arrangement with the Management Secretary.
- 7.15 All decisions made in regard to membership of the Management Committee shall be determined on a majority basis with the Management Secretary holding a casting vote if a tie should ensue.

SECTION 8 POWERS AND DUTIES OF THE MANAGEMENT COMMITTEE

- 8.1 The term of the Management Committee shall be from one Annual General Meeting to the next Annual General Meeting. The Management Committee shall meet as often as the business of the Society may require, but no fewer than three times annually.
- 8.2 The Management Committee shall be responsible to the members of the Society for the policy and administration of the Society. The Management Committee's powers shall include:
- a) Arranging conferences, seminars and symposia.
 - b) Publishing bulletins and newsletters.
 - c) Forming geographical branches or specialist groups.
 - d) Establishing and maintaining liaison with other organisations with similar objects.
 - e) Appointing the Management Secretary and any other necessary staff, and deciding upon their remuneration.
 - f) Instituting and managing merit awards.
 - g) Purchasing, leasing, renting or otherwise holding any buildings, premises or equipment for the use of the Society and disposing of some or all of it.
 - h) Borrowing or otherwise raising money in such a manner as it thinks fit and securing repayment by the issue of debentures, mortgages or charges upon the whole or part of the assets of the Society and to purchasing, redeeming or paying off such securities, all of these being subject to a majority vote of members voting at either an Annual General Meeting, Special General Meeting or by ballot.
 - i) Managing the financial affairs of the Society, including fixing annual subscriptions, controlling and investing Society funds, and opening and operating and closing such bank accounts deemed necessary for the purposes of the Society.
- 8.3 The decisions of the Management Committee on the Interpretation of the Rules of the Society, on all matters dealt with in accordance with such Rules and on matters not provided for in such Rules shall be final and binding on all members of the Society.
- 8.4 The responsibilities and powers of the Management Secretary shall be specified by the Management Committee.
- 8.5 All members of the Management Committee shall be held to be Officers under the Charities Act. These members shall abide by all of the applicable rules under New Zealand law and qualify for appointment in terms of the Charities Act or have a waiver from the Charities Commission.

SECTION 9 FINANCE

- 9.1 The financial and subscription years shall be the same, commencing on 1 October and ending on 30 September in the following year.
- 9.2 Each full member of the Society shall pay an annual subscription, the amount of which shall be determined by the Management Committee. The amount shall be such that the income from subscriptions will cover:
- a) The annual contribution to each International Society.
 - b) Other normal expenses of the Society.
 - c) And for each member, the capitation fee(s) for the particular International Society (or Societies) to which the member wishes to affiliate. The annual subscription shall be due on 1 October for the financial year. Subscriptions are on a yearly basis only. Each full member joining the Society for the first time shall be given a 50% reduction in membership fee for the first year of membership. This is not to apply to student membership, or the cost of bulletins. No reduction will be given for membership for part of a year, or because of changes in the nominated affiliation during a year.
- Life Members and Long Service Members are exempt from the annual subscription, except should such members wish to affiliate to an International Society, in which case they shall pay the annual subscription for their chosen affiliation.
- 9.3 In the case of Student Members the annual subscription shall be one half of the basic rate set for full Society members. International affiliation fees (excluding the cost of bulletins) or charges shall be payable at one half of the normal rate for full members.
- 9.4 Any member, whose annual subscription has not been paid by 1 April, shall be regarded as "in arrears of

subscription” and the right of membership may be suspended until the arrears have been paid. If a member is still in arrears at the end of that financial year he or she shall be automatically removed from the list of members.

- 9.5 The Treasurer shall manage all financial dealings of the Society, including monitoring the collection of subscriptions and shall keep a separate record of the accounts of the Society. At the discretion of the Management Committee, the Treasurer may utilise the services of the Institution or other suitable body to assist in managing the financial affairs of the Society and the Society shall pay any charges so arising.
- 9.6 The Management Committee shall maintain a record for each member of the Society noting in particular name, address, International Society affiliation, the date when each member joined, and resigned from the Society and a record of dates and amounts of subscriptions and when these are paid.
- 9.7
 - a) At the end of each financial year the Management Committee shall prepare an Annual Statement of Accounts which shall be circulated to each member of the Society not less than 14 days before the Annual General Meeting and shall be laid before such meeting.
 - b) The Management Committee shall prepare an Annual Report for the financial year, which shall be circulated to each member of the Society not less than 14 days before the Annual General Meeting and shall be laid before such meeting. The Annual Statement of Accounts shall be reviewed or audited periodically at the discretion of the Management Committee.
- 9.8 The Society shall not intend to make a profit. In the event that a surplus is made on a Society activity the surplus shall be passed on to members through future Society activities.
- 9.9 The business activities of the Society shall be limited to within New Zealand.
- 9.10 Any income, benefit or advantage that does result must be used to advance the charitable purpose of the organisation.
- 9.11 No member of the Society, or anyone associated with the member, is allowed to take part in or influence any decision made by the organisation in respect of payments to, or on behalf of, the member or associated person of any income, benefit or advantage.
- 9.12 Any payments made to a member of the Society, or persons associated with the member, must be for goods or services that advance the charitable purpose and must be reasonable and relative to payments that would be made between unrelated parties.

SECTION 10 ANNUAL GENERAL MEETING

- 10.1 An Annual General Meeting of the Society shall be held once in each calendar year preferably during the month of either February or March at such time and place as may be decided by the Management Committee.
- 10.2 Notice of each Annual General Meeting shall be circulated to each member not less than 14 days before such meeting.
- 10.3 There shall be no quorum for the Annual General Meeting.
- 10.4 The business of the Annual General Meeting shall be to receive and consider the Annual Report and the Annual Statement of Accounts and to receive and confirm the incoming Management Committee.
- 10.5 The meeting shall be chaired by Chair for the previous year or the Chair’s appointee.

SECTION 11 SPECIAL GENERAL MEETING

- 11.1 A Special General Meeting of the Society may be called by the Management Committee at any time and shall be called by the Management Committee if requisitioned by no fewer than ten full financial members.
- 11.2 Notice of each Special General Meeting and of the nature of the business to be transacted thereat shall be circulated to each member not less than 14 days before such meeting.
- 11.3 The quorum for each Special General Meeting shall be ten full financial members.
- 11.4 The meeting shall be chaired by the Chair or the Chair’s appointee.

SECTION 12 VOTING AT MEETINGS

- 12.1 Votes at the Annual General Meeting or Special General Meeting shall be by Society members only and may be given in person, by proxy, or (subject to confirmation by the Management Committee) given by post. Written notice of an appointed proxy shall be prepared and signed by the appointee. Proxies may be assigned only to financial members who are qualified to vote. The proxy shall be exercised only for business or matters of which due notice has been given and shall be received by the Management Secretary prior to the commencement of the meeting. Postal votes shall only be valid if received by the Management Secretary by the date advised when calling the vote.
- 12.2 Each member shall have the right to exercise one vote only on each motion before such meeting except that in the case of equality of voting the Chair may exercise a casting vote in addition to his or her deliberative vote.
- 12.3 Voting on any motion before such meeting shall be by voice, except that any such member present at such meeting may require a show of hands and any ten-percent of such members present at such meetings may require a secret ballot.
- 12.4 A majority of the members voting shall decide any questions unless the Rules otherwise provide.

SECTION 13 COMPLIANCE WITH THE RULES OF THE SOCIETY

- 13.1 Members of the Society shall be bound by the Rules of the Society and the form of application for membership shall contain a declaration in the following terms to be signed by each applicant:
- “I believe I am a fit and proper person to be a member of the NZ Geotechnical Society Incorporated and promise that, in the event of my admission, I will abide by the Rules of the Society that are in force or as they may hereafter be amended and that I will promote the purposes of the Society to the best of my power and ability.”
- 13.2 Failure of a member to abide by either the declaration or the Rules of the Society may result in the member being censured by the Management Committee. Should the Management Committee consider a failure to abide by the Declaration or Rules to be serious the member may be either suspended for a period determined by the Management Committee or removed from the membership.

SECTION 14 COMPLIANCE WITH THE CODE OF ETHICS OF THE INSTITUTION

- 14.1 The Society and its members shall comply with the Code of Ethics of the Institution as they exist at any time, except that where there is a conflict the Society's Rules shall take precedence.

SECTION 15 ALTERATION OF RULES

- 15.1 Alteration to the Rules of the Society may be recommended by a majority vote of an Annual General Meeting or a Special General Meeting. The notice of motion for alteration of the Rules shall be given to the Management Secretary not less than one calendar month prior to the meeting. The Management Committee may, at its discretion, require a ballot of Members to ratify any particular Rule alteration recommended at an Annual General Meeting or Special General Meeting.
- 15.2 No alteration, addition, decision or substitution which would alter the charitable nature of the Society shall be permitted.

SECTION 16 DISSOLUTION

- 16.1 The dissolution or liquidation of the Society can be accomplished only by a resolution passed by at least two-thirds majority of all members of the Society.
- 16.2 If, for any reason whatsoever, the Society shall be liquidated, wound up, or otherwise cease, the Society's funds or any part thereof remaining shall, after payment of costs of liquidation, winding up and dissolution and payment of any debts of the Society, be given or transferred to Management Committee for carrying out charitable purposes within New Zealand similar to those set out in these rules, or be applied to any such charitable purposes within New Zealand as the Management Committee may by resolution determine at or before the winding up, failure or dissolution (as the case may be). In default of this provision, then as may be

determined by a Judge of the High Court of New Zealand on application by any Member of the Management Committee.

SECTION 17 COMMON SEAL

- 17.1 The Society shall have a common seal, which shall be kept in the custody and control of the Management Secretary. The Society shall execute any document so required by the Incorporated Societies Act 1908 or pursuant to a resolution of the Society passed for that purpose by fixing the common seal in the presence of two members of the Management Committee.



A Collaborating Technical Society
of The Institution of Professional
Engineers New Zealand

Chair's Report 2015/2016

Welcome to this 2016 AGM of the society. Before getting around to outlining the substantial amount of business we have dealt with during the year I wish to thank the Committee, and other members who take on roles to keep the society functioning, for their dedication and hard work. A considerable amount of work has been carried out during the year by these members, mainly in voluntary functions, and it is important that they know that their work and time commitment is appreciated by us all.

Amanda Blakey, NZGS secretary for the last eight years, resigned early in 2015 as she had decided that the time was right to return to her career in planning. In recent years Amanda had come to understand the functioning of the society almost like no one else, and the Committee increasingly relied on her knowledge of the society for its smooth running. We are grateful for all that she did for the society, and we enjoyed working with her, but we have been aware for some time that this was on the horizon, and we wish Amanda all the best for her future. Many of you will already have had dealings with our new secretary, Teresa Roetman, who has settled in to the secretarial role now. Please welcome her to the society.

We are trying to reduce the amount of email communication that we pass on to you all by condensing as much of it as possible into a single weekly email. We hope that this is helpful, but are somewhat concerned that any member who doesn't read this will not be aware of any of the society's activities, and so we are issuing some individual emails still. We would like feedback from members as to whether this single weekly email is well received and appropriate, or not, as the case may be.

2015-16 Committee

Tony Fairclough, Kevin Anderson and Guy Cassidy were all re-elected for second terms on the Committee, and Sally Hargraves was successful in being elected for a first term for the 2015-16 Management Committee. The Committee has thus maintained the very good spread of representation between the islands and between engineers and engineering geologists that we have kept in recent years, with around 50% for each.

I took over the Chair role from Gavin Alexander in March 2015, Tony Fairclough was elected to take up the treasurer and vice-chair role, and Gavin Alexander moved into the Immediate Past Chair role. I would like to thank Gavin for his dedication in the role of Chair over the 2013-2015 period. It was a period with a considerable amount happening, and he put a significant amount of time and effort into his chair role, for which the society is grateful. He is not altogether freed from NZGS duties however, as he continues as Immediate Past Chair and represents the society on a number of national bodies.

Geomechanics News

Ross Roberts has led the editorial team this year, with assistance from co-editors Kelly Walker and, more recently, Marlene Villeneuve. Marlene will move into the senior role this year, and we are now looking for another member to join the editorial team as Ross retires from the role. The society has much to be grateful for with the dedication that each of these members gives to the magazine, and I wish to offer my personal thanks to Ross for his work with the magazine over nearly three years.

All issues of Geomechanics News, from the first issue in November 1970 onwards, are now available online through the NZGS website. It is interesting to note that this year the magazine has passed its forty fifth anniversary, and in a few years we will be publishing the 100th issue – something to be prepared for. Looking back over the issues online it is interesting to see the change in format and content over the years, and the society should be proud of its progression.

Conferences

6th International Conference on Earthquake Geotechnical Engineering

The 6ICEGE was held in the Wigram Airforce Museum in Christchurch from December 1st to 4th 2015. The conference was a significant success, buoyed by the attendance of many of the world's leaders in earthquake geotechnical engineering: about 100 of the most prominent researchers in earthquake geotechnical engineering attended. It was a unique opportunity for our members to listen to and get to meet names such as Ishihara, Idriss, Finn, O'Rourke, Boulanger, Bray, Kramer etc all in one place. Many comments have been made that the quality of papers presented was very high, even if somewhat overbalanced by Christchurch liquefaction papers. It was notable that the Stokoe-Verdugo discussion session over the application of shear wave velocity in liquefaction analysis was mentioned by one of the leading visitors as the best session that he had ever experienced at a conference – praise indeed. The conference proceedings are a significant body of work for future reference, and will undoubtedly become a seminal reference in Earthquake Geotechnical Engineering. There are plans to publish about 25 to 28 of the Key papers in a special issue of Soil Dynamics and Earthquake Engineering (SDEE), an Elsevier publication, late in 2016.

Attendance was 546 including the invited speakers and delegates, plus 50 places exhibitors, which far exceed the initial budgeted target of 350 and reached the capacity of the venue. It is pleasing to also report that Scholarships were offered to students and to delegates from underdeveloped countries, and twenty four were awarded. Final accounts have yet to be settled, but we do know that a very significant surplus was achieved.

New Zealand won the rights to host this conference by virtue of an initiative by Misko Cubrinovski in 2011, and the NZGS was subsequently joined by the UC Quake Centre and EQC in providing financial support for it. A number of NZGS members also organised four very successful technical tours in conjunction with the conference, and these were attended by 124 delegates, nearly 25% of the total number at conference. There are far too many names to mention individually, but Misko, the organising committee and the tour organisers are to be thanked for the significant effort they put into organising the very successful conference.

20th NZGS Symposium, 2017

We have commenced arrangements for the 20th NZGS Symposium, to be held in 2017, and have appointed Pierre Malan to act as convenor, following his involvement in the ANZ 2015 conference. We can announce that the venue for the event will be Hawke's Bay, and it will be held in November 2017.

Awards

The Committee has recognised the significant effort required to keep track of and coordinate the various awards that the society makes each year, and has appointed a Management Committee member to act as 'Awards Officer' to champion and organise all the awards. Sally Hargraves has taken up this role.

The Student prize for 2015 was again based on posters rather than verbal presentations, but we are considering alternative formats to draw interest to the award from students. Ten posters were entered for the competition this year, and awards made to the top three: Kuanjin Lee, Gregory Clements and Takeshi Burden (jointly), and Gislaine Pardo. Congratulations to each of these authors.

The NZGS Scholarship has not been awarded this year as it was felt by the judges that the society's requirements for the award were not satisfied by any of the three applications submitted. It is a disappointment that this has happened, and the Committee is investigating ways of improving the take-up/accessibility of the scholarship.

Young Geotechnical Professionals

Frances Neeson continues in the TGP coordination role, and is progressing with planning for the next YGP conference, along with the remainder of the conference organizing committee of Luke Storie, David Buxton, Richard Heritage and David Lacey (AGS Rep). This is to be held in Queenstown in October 2016.

Riley Gerbrandt has been appointed to the ISSMGE's Young Members Presidential Group as the representatives of the Australasian region, an appointment for a two year term.

Visitors and Lecturers

Prof Jim Griffiths, Plymouth University, presented his 14th Glossop lecture early in 2015, and in May we were privileged to have Professor Guy Houlsby of Oxford University give us fresh renditions of his 54th Rankine lecture in Auckland, Wellington and Christchurch. Both of these presentations were extremely well received by members. We have sponsored similar Rankine lecture tours jointly with the ICE and AGS on regular occasions in recent years, and hope to continue this fruitful liaison in the future.

A two day short course on FHWA design methods in Mechanically Stabilised Earth Walls and Reinforced Soil Slopes was held in Auckland, Christchurch and Nelson in September, for which we brought over Professors Dov and Ben Leshchinsky from Delaware and Oregon State Universities. Overall the attendance in all three centres was about 85, and an excellent course was presented over two days in each venue, but attendance in Nelson was disappointing. We are grateful to Geofabrics sponsorship, which was crucial to the success of this event. The registration fee for this course was set at a minimum level to make it as accessible as possible, which made it particularly disappointing to have had poor attendance in one of the venues.

We are lucky to continue to have a good number of motivated Branch Representatives around the country on whom we rely to organise local events. We are grateful for their input.

Seismic Guidelines

The series now includes six modules, either published or in preparation. As the number of modules has grown it has become apparent that there is a need to coordinate them, and ensure consistency between them. The Committee have therefore asked Mike Stannard, Chief Engineer for MBIE, to take on the role of Editor-in-chief of the series, which he has agreed to, and has been doing since the middle of 2015.

The numbering of the modules has been reordered into a more logical order to cater for the expanded series, and a new 'Overview' Module introduced to provide an introduction, knitting the series together and providing some information that is common to all the modules, such as estimation of ground motion parameters. This 'Overview Module' is now Module No. 1, and the old liquefaction module will become Module No. 3. The Overview module is ready for publication and should have been released by the time of this AGM on March 8th. A revision to the Liquefaction Module (the new Module 3) is also ready to be published and we expect it to be released in March also. Module 5a, the Specification for Ground Improvement, was published in November last year. This was developed by a team led by Tony Fairclough and Neil Korte. A draft of Module 2, Site Investigation, is with the editorial committee and is likely to be the next module to be brought to completion. This has been developed by a team led by Tony Fairclough and Dan Ashfield. Module 4, Seismic Design of Foundations, led by Kevin McManus, and Module 5, Design of Ground Improvement, are both well advanced and are expected to be released this year. Module 6, seismic design of retaining walls, is still some way from off, partly due to the issue of whether it should address static design as well as seismic, and partly due to concentration of efforts on the development of the other modules. The publication of modules 1 and 3 is expected to free up some resources which will help to advance module 6, and we are expecting to see this move forward again this year.

Training and Qualifications in Engineering Practice

We are working with MBIE to develop a training programme to supplement the publication of the Earthquake Geotechnical Engineering (EGE) Guideline modules. Sally Hargraves is the NZGS representative on the working group for this initiative, and I am sitting on the steering group. The working group is also looking past the EGE topics and is addressing wider training requirements in the industry. A 'Geotechnical Learning Needs' survey has been run to identify topics needing to be addressed, and this attracted 312 responses which will help to prioritise topics.

MBIE has also agreed to facilitate the development of more structured training for engineers in the work place, and have invited NZGS to join the 'Establishment Group' for new university qualifications in engineering practice. Gavin Alexander is acting as NZGS representative.

Other Industry Interaction

We have been active in representing the geotechnical community on various bodies and other working groups, and making submission to Government during the year. I have mentioned some of these already, but others include the Engineering Design and Reference Group, and the working group to update the NZSEE Seismic Assessment Guidelines (The NZSEE Red Book), on both of which Gavin Alexander represents the NZGS. The updated Red Book including new geotechnical elements is nearing completion.

In August we received the first draft for review of the Rock Protection Structure Design Guidance document commissioned by MBIE. Ann Williams has been representing the NZGS on this working group. This document may become co-branded by NZGS with MBIE.

We are also represented on a working group commissioned by MBIE to develop a Geotechnical Rapid Assessment Field Guide to assist geotechnical professionals in the assessment and categorisation of land instability. This would be used as part of a Rapid Building Assessment (RBA) operation during a State of Emergency. The guide brings together documentation already developed during the Canterbury Earthquake Emergency to assess dangers from rockfall.

Submissions to Government

Having made an initial submission to the local government and environment select committee on the Earthquake Prone Buildings Amendment Bill in 2014, we made a supplementary submission in 2015, which I presented to a hearing of the Local Government and Environment select committee on July 30th. We also made a submission on the Building Act Emergency Management Proposals to MBIE on July 25th.

NZGS Website

The website is currently run by IPENZ, but the changes in the IPENZ systems has resulted in uncertainty over its future. The Management Committee is currently considering the various options, and a decision is pending on whether to continue on the IPENZ platform, or to move back to a private provider. The present site now holds all 90 past issues of Geomechanics News, and some of the conference and symposium proceedings, which we intend to progressively add to. Ross Roberts has been handling website matters for the society in recent years, and will continue in this role once he retires from editorship of the Geomechanics News this year.

IPENZ Administration

As many of you will all be aware, IPENZ have undergone a major reorganisation over the last couple of years. This includes the implementation of new accounting and membership management systems, and new agreements with collaborating technical entities including the NZGS. The changes include the abolition of their annual service charge levied on individual members (\$45+GST pa in 2014-15), and the transfer of charges directly to the societies who make use of the services. As a result we have reset the annual subscription to \$120 + GST to include an element of the abolished services fees, and to cover other significant expenses that we expect to be incurred such as the implementation of a new website.

Thank you for attending this 2016 AGM of the society. Please continue to support the society in whatever way is appropriate for you, and the society will then be able to continue to support you in return. Without your support the society will cease to function.

Charlie Price

Chair, NZGS Management Committee
Chair@NZGS.org



A Collaborating Technical Society
of The Institution of Professional
Engineers New Zealand

NZGS Treasurer's Report for the 2014/15 Financial Year

Dear Members,

The attached statements set out the final accounts for the 2014/2015 financial year together with the proposed budget for the 2015/2016 financial year.

Summary of the 2014/2015 Financial Year

As at 30 September 2015 the New Zealand Geotechnical Society had total assets of \$339,855 compared with \$189,969 at the end of the 2013/2014 financial year.

Income for the 2014/15 year was \$330,261.96 and expenditure \$182,383.04 giving a nett surplus of \$147,878.92. This very healthy surplus is primarily due to a return of \$131,557.43 from the ANZ 2015 conference in Wellington. The symposium committee is again congratulated on this excellent result.

Membership subscription income was \$122,386.46 this year, \$411 higher than last year.

The bulk of the societies' outgoings comprised expenditure on Subscriptions (International Societies membership) (\$28,012), publication of Geomechanics News (\$40,219), secretarial expenses (\$31,583), management committee expenses (\$16,702), Courses/Speakers/Branch Meeting costs (\$20,682), Symposiums/Conferences/Workshop costs (\$19,148) and Awards/Scholarships/Prizes (\$11,146).

Working groups developing the Earthquake Engineering Guidelines, Seismic Design Guidelines and Standards cost the society \$7,652 this year. This is in line with the previous year's expenditure and the volume of work completed by the management committee during the 2014/2015 financial year.

Budget for the 2015/2016 Financial Year

In summary, the budget for the 2015/2016 Financial Year comprises a total income of \$254,100 and a total expenditure of \$292,214. The budgeted deficit of \$38,144 is primarily due to one-off costs associated with the development of a new website that is independent from IPENZ, and, provision for Symposium/Conference seeding funds. This deficit is considered acceptable by the Management Committee due to the current

strong financial position of the society, and, the expectation that most if not all of the seeding funds will be returned during subsequent financial years.

The primary income sources for 2015/2016 are expected to be membership subscriptions (\$162,700), Geomechanics News (\$36,000), Courses/Workshops/Speakers (\$23,100) and Symposiums/Conferences (\$20,000). Predictions of income from membership subscriptions are based on June 2015 membership numbers (1082).

Whenever possible predictions of expenditure under the 2015/2016 budget are based on costs incurred during previous years. The largest categories of expenditure are for Geomechanics News (\$42,400), Courses/Workshops/Speakers (\$41,900), Symposiums/Conferences (\$40,000 seeding funds for the 20th NZGS Symposium and the 11th YGP Conference), NZGS Administration and Secretarial costs (\$34,990), International Membership Subscriptions (\$34,334), Committees and Representatives (\$28,400), and, Awards/Grants (\$22,050).

Due to changes in the way which IPENZ will support and charge the Technical Interest Groups and Collaborating Technical Societies, additional budget allowances have been made under the categories of IPENZ Administration Fees and Charges (\$16,020) and Website (\$19,300).

Anthony (Tony) Fairclough
Treasurer, 22 February 2016
treasurer@nzgs.org

New Zealand Geotechnical Society Inc

Statement of Financial Performance

For the Year Ended 30 September 2015

	2015 \$	2014 \$	2013 \$
Income			
Members Subscriptions	\$ 122,386	\$ 121,975	\$ 111,329
GeoMechanics News Advertising	\$ 36,352	\$ 33,704	\$ 35,543
Interest Income	\$ 8,907	\$ 8,041	\$ 3,977
Publication Sales and Other Income	\$ 90	\$ 270	\$ 350
Sponsorship EQC Awards	\$ -	\$ 5,000	\$ -
Courses/Speakers/Workshops	\$ 30,644	-\$ 294	\$ 21,865
Web Page Advertising	\$ 325	\$ 1,125	\$ 2,850
2013 NZGS Symposium	\$ -	\$ 95,347	\$ -
ANZ2015 Symposium	\$ 131,557	\$ -	\$ -
Total Income	\$ 330,262	\$ 265,169	\$ 175,914
Less Expenses			
Conferences			
NZGS 2013	\$ -	\$ 689	\$ -
ANZ 2015	\$ 19,148	\$ 20,025	\$ 30,299
6ICEGE 2015	\$ -	\$ 20,004	\$ 636
Awards/Prizes/Lectures/Competitions/Scholarship	\$ 8,732	\$ 7,075	\$ 7,043
Geomechanics Lecture	\$ 2,414	\$ 2,690	
International Society Subscriptions	\$ 28,013	\$ 29,993	\$ 26,542
Geomechanics News	\$ 40,220	\$ 42,774	\$ 35,165
Publications (Other than Geomechanics News)	\$ 271	\$ -	\$ -
Printing, Postage,tolls, faxes and stationery	\$ 2,589	\$ 1,353	\$ 1,384
Secretarial, incl storage	\$ 32,660	\$ 29,861	\$ 25,894
Website maintenance + internet	\$ 578	\$ 2,004	\$ 513
Working Groups (inc Seismic Design Guidelines)	\$ 7,652	\$ 5,212	\$ 170
Sundry Expenses	\$ 1,824	\$ 794	\$ 637
Committee Meetings and Travel Expenses	\$ 17,506	\$ 16,077	\$ 14,365
Overseas Travel (VPs etc)	\$ -	\$ 8,174	
Young Geotech Engineers Conference & Activities	\$ -	\$ 10,732	\$ 6,957
Chch earthquake response	\$ -		\$ 445
Branch meetings	\$ 541	\$ 2,559	\$ 1,473
PEngGeol Register	\$ 2	\$ 472	\$ 458
Courses/Presentations			
Overseas visitors	\$ 157	\$ 2,317	\$ 2,341
Field Mapping Workshop	\$ -		
Simpson and Griffiths Workshops	\$ -	\$ 551	\$ 20,531
Insitu Testing Workshops	\$ -		\$ 2,525
Rankine Lectures	\$ 6,724	\$ 1,185	\$ 3,725
Glossop Lectures	\$ 3,888		
Soil Reinforcement Short Course	\$ 9,372		
Bank Fees	\$ 91		
Total Expenses	\$ 182,383	\$ 204,541	\$ 181,103
Net Operating Surplus (Deficit)	\$ 147,879	\$ 60,628	-\$ 5,189

Statement of Movement in Accumulated Funds

For the Year Ended 30 September 2015

Opening Balance 1 October	\$ 191,976	\$ 131,349	\$ 136,538
Year end GST adjustment and rounding	\$ -	-\$ 2,009	-\$ 839
Plus Net Operating Surplus (Deficit)	\$ 147,879	\$ 60,628	-\$ 5,189
Total Accumulated Funds at 30 September	\$ 339,855	\$ 189,969	\$ 130,510

Statement of Financial Position

As at 30 September 2015

Current Assets			
IPENZ Current Account	\$ 181,357	\$ 36,977	-\$ 23,651
Westpac Short Term Deposit	\$ 155,000	\$ 155,000	\$ 155,000
GST Refundable	\$ -	-\$ 2,009	-\$ 839
IPENZ Receivable	\$ 0		
Accounts Receivable	\$ 16,061		
Net Assets	\$ 352,418	\$ 189,968	\$ 130,510
Represented By:			
Accumulated Funds at 30 September	\$ 339,855	\$ 189,969	\$ 130,510

NEW ZEALAND GEOTECHNICAL SOCIETY
BUDGET FOR 2015 / 2016 FINANCIAL YEAR
Final Version 04, 26 November 2015

BUDGET SUMMARY

INCOME				EXPENDITURE			
Item Number	Description	Amount	% of Total	Item Number	Description	Amount	% of Total
1100.000	Subscriptions	\$162,700	64.0%	2100.000	Subscriptions	\$34,634	11.9%
1110.000	Bank Interest	\$7,200	2.8%	2110.000	Bank Administration Fees and Charges	\$120	0.04%
1120.000	NZGS Administration	\$0	0.0%	2120.000	NZGS Administration	\$34,990	12.0%
1130.000	Committees and Representatives	\$0	0.0%	2130.000	Committees and Representatives	\$28,400	9.7%
1140.000	Website	\$0	0.0%	2140.000	Website	\$19,300	6.6%
1150.000	Geomechanics News	\$36,000	14.2%	2150.000	Geomechanics News	\$42,400	14.5%
1160.000	Publications (other than GeoNews)	\$100	0.0%	2160.000	Publications (other than GeoNews)	\$0	0.0%
1170.000	Awards/Grants	\$5,000	2.0%	2170.000	Awards/Grants	\$22,050	7.5%
1180.000	Working Groups/Stakeholder Consultation Groups	\$0	0.0%	2180.000	Working Groups/Stakeholder Consultation Groups	\$9,500	3.3%
1190.000	Courses/Workshops/Speakers/Branch Meetings	\$23,100	9.1%	2190.000	Courses/Workshops/Speakers/Branch Meetings	\$41,900	14.3%
1200.000	Symposiums/Conferences	\$20,000	7.9%	2200.000	Symposiums/Conferences	\$40,000	13.7%
1210.000	PEngGeol Register	\$0	0.0%	2210.000	PEngGeol Register	\$0	0.0%
1220.000	Sundry	\$0	0.0%	2220.000	Sundry	\$2,900	1.0%
1300.000	IPENZ Administration Fees and Charges	\$0	0.0%	2300.000	IPENZ Administration Fees and Charges	\$16,020	5.5%
<u>TOTAL</u>		<u>\$254,100</u>	<u>100.00%</u>	<u>TOTAL</u>		<u>\$292,214</u>	<u>100.00%</u>

FORECAST FINANCIAL POSITION AT END OF 2015 / 2016 FINANCIAL YEAR

Predicted 2014/2015 Balance Carried Forward from WestPac Cheque Account:	\$184,000
Term Deposit:	\$155,000
<u>Predicted Total Assets Carried Forward from the 2014/2015 Financial Year:</u>	<u>\$339,000</u>
 2015/2016 Income:	 \$254,100
2015/2016 Expenditure:	\$292,214
<u>Nett 2015/2016 Financial Result:</u>	<u>-\$38,114</u>
 <u>Predicted Total Assets to be Carried Forward to the 2016/2017 Financial Year:</u>	 <u>\$300,886</u>



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UNCONFIRMED 2016 MANAGEMENT COMMITTEE:

Teresa Roetman	Secretary (appointed position)
Charlie Price	Chair
Tony Fairclough	Vice Chair & Treasurer
Kevin Anderson	Committee Member
Guy Cassidy	Committee Member
Eleni Gkeli	Committee Member
Sally Hargraves	Committee Member
Frances Neeson	Co-opted YGP Representative
Ross Roberts	Co-opted Co-Editor NZ Geomechanics News
Marlene Villeneuve	Co-Editor NZ Geomechanics News

EX OFFICIO

Gavin Alexander	Immediate Past-Chair
Mark Eggers	Australasian Vice-President IAEG
Prof. Mark Jaksa	Australasian Vice-President ISSMGE
Dr Stuart Read	Australasian Vice-President ISRM



The Opportunities Associated with the Creation of a National Geotechnical Database



John Scott is a geotechnical advisor with the Ministry of Business Innovation & Employment (MBIE). He has had 30 years' experience nationally and internationally in the geotechnical and project management disciplines. In more recent times John managed the Canterbury Geotechnical Database when he worked at the Canterbury Earthquake Recovery Authority in 2012-2013. John is currently coordinating the development of a national geotechnical database for MBIE. John, on behalf of his co-authors (Sjoerd van Ballegooy, Virginie Lacrosse, Mike Stannard and James Russell) presented the following paper at the 6th ICEGE conference in Christchurch in November 2015.

The Canterbury Geotechnical Database (CGD) is an online database that has been developed for the rebuild of Christchurch following the 2010 - 2011 Canterbury Earthquake Sequence (CES). It was designed as a searchable repository for sharing existing and new geotechnical information along with supporting geotechnical applications for building and resource consents. As at February 2016, the database contains over approximately 22,000 cone penetration test records, 5,000 boreholes, 1,000 piezometers with accompanying groundwater monitoring records, 6,000 laboratory test records plus other data. This data can also be used for more strategic purposes such as assisting with the recovery for future natural disasters, increasing the resilience of other areas of New Zealand, catastrophe loss modelling and informing regulatory processes. The extensive geotechnical database when combined with other data sets enables close examination and modelling of ground and built infrastructure performance. The lessons learnt from these analyses can be applied to improve resilience and also used to inform regulatory policy decisions in other areas of New Zealand. This paper provides examples of how this extensive dataset can be used and outlines the benefits to geotechnical and hazard management practice in New Zealand if it were expanded to a nationwide database