

Annual Report

1 APRIL 2018 – 31 MARCH 2019



Companies Office Registration

**Geoscience Society of New Zealand Incorporated No.
219911**

**Geoscience Society of New Zealand Awards Trust No.
1477708**

Charities Services Registration

**Geoscience Society of New Zealand Incorporated:
CC41125**

**Geoscience Society of New Zealand Awards Trust:
CC35670**

**Constituent Organisation of the Royal Society of New
Zealand**

Geoscience Society of New Zealand Inc.

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President's Report

"The conference was superb and the first ever Geoscience conference to sell out."

This report covers a year under the Presidency of Jennifer Eccles. First, we remember our members who have passed away this year, including prominent contributor to the Society former GSNZ President (1959-60) **David Kear**. Foundation member of the Geological Society of New Zealand **George Grindley** also passed as did longtime member **Ronald (Ron) Keam**.

The presentation of society activities in a consolidated Annual Report is now in its third year. Progress on succession within the national committee has been made, with Alan Orpin elected as treasurer at the 2017 AGM solely in charge of finances presented in this report. Long-serving administrator Janet George retired in late 2018 handing over the reins as administrator to Nicki Sayers in August 2018 and seeing out the Geosciences 2018 conference as her final conference organization (her day job) on our behalf. Janet's contribution to the society was recognized at the Geosciences 2018 conference dinner where she was awarded Honorary membership. Both Alan and Nicki have been busy with new initiatives to increase efficiency and effectiveness in their roles.

Alan Cooper presented his Hochstetter Lecture on 'The Pounamu Terrane: a new component in the assembly of Zealandia' across 11 centres; his supplementary lectures on Carbonites was also presented at the main University centres. Both talks were engaging and interesting.

The 2018 annual conference in Napier, organised by GNS Science and the Wellington Branch attracted 340 delegates (~30% of whom were students) and 176 oral and 125 poster presentations. The conference was superb and the first ever Geoscience conference to sell out. The conference was convened by Joe Prebble and supported by the local organising committee. The location and venue lent itself particularly well to the science programme and the regional locality proved popular for the uptake of superb fieldtrips. The public lecture was a particular success with over 400 attendees from the local community attending a multi-speaker, regionally relevant talk. The Geoscience conference continues to provide an active forum for the New Zealand geoscience research community and interested parties to come together to disseminate new findings, share ideas and network. The conference annual dinner, held in Art Deco style at the Napier Conference, also gives us the opportunity to celebrate the excellence within our community with the presentation of

our annual awards. These are fully documented in the Awards and Grants section of this report.

We also take the opportunity to acknowledge those members of our community who achieved recognition for their excellence in other national and international forums, with New Zealand geoscience punching well beyond our population size. To support the next generation of geoscientists, the Society also supports student research outside those awarded at the conference dinner through funding of Young Researcher Travel Grants to attend international conferences; travel grants to this conference, and the S.J. Hastie Scholarships for Masters or Honours research. Conference income also funds student oral and poster prizes.

Sam McColl, managed our publication sales this year. The second addition of 'A Continent on the Move' and the biography of James Hector were our most popular publications. On the upstream end of publications – managed by our Publications Convenor, Matt Sagar – the Society has facilitated several significant Miscellaneous Publications:

The working life of Michael John Selby (1936–2018)

Campbell S. Nelson (University of Waikato) authored a tribute to and summary of the working life of the late Michael J. Selby, who was regarded as a highly influential late 20th century geomorphologist and university leader. This was published as Miscellaneous Publication 150 in eBook format that is freely available from the [Society website](#).

Abstract Volume and Field Guide of the IAVCEI 5th Volcanic Geology Workshop

Massey University and the University of Auckland co-hosted the IAVCEI 5th Volcanic Geology Workshop, held 25 February–4 March 2019 ([website](#)). The Geoscience Society of New Zealand published the Abstract Volume and Field Guide as Miscellaneous Publication 152, which is [available from the workshop website](#).

Book on Lloyd Homer, a photographer, by Simon Nathan

The typesetting for this book is presently being finalised. It is anticipated that it will be published well before the end 2019 as Miscellaneous Publication 153.

Three editions of the GSNZ Newsletter (June 2018, November 2018 and March 2019) have been published this financial year, under the excellent editorship of Glenn Vallendar. Eleven electronic Newsflashes were also issued throughout the year,

transitioning to a Mail Chimp format that makes content more directly visible with links to more information. Our website has continued to remain up-to-date through the dedicated work of our website editor, Hugh Grenfell.

The Geoheritage subcommittee, led by Bruce Hayward, has continued to advocate on our behalf on various geopreservation matters including working with councils (e.g. Waikato) to establish protection of Outstanding National Features. The uniform recognition of geoscience features as ONF remains a challenge and a “**Best practice guide: Outstanding Natural Features. What are they and how should they be identified. How their significance might be assessed and documented.**” document prepared. The Crater Hill subdivision appeal in the High Court was defeated. The GSNZ made a submission to the Overseas Investment Office stressing the geoscience (paleoecological and climatic) importance of the Foulden Maar and need for a portion of this deposit to be preserved in perpetuity.

The committee encouraged branches to recognise our national geosciences day – Hector Day. This year a national initiative, the Hector Day geo-bake, was again advertised generating creative and enthusiastic efforts from many of our younger members in particular. Morning teas were held before photos were uploaded to and judged on the GSNZ Facebook site. The national prize of a **geological hammer**, a **copy of A Continent on the Move** and a one-year GSNZ membership was awarded to Oliver McLeod from the University of Waikato with his cupcake representations of Pirongia Volcanic activity.

Our Society is one of the larger Constituent Organisations of the Royal Society of New Zealand. We also renewed our memoranda of understanding with the geological societies of Australia and America, mainly associated with applying membership rates to each other's conferences.

I thank this year's national committee for their hard work and contributions to the work of the Society; several have been noted above. Secretary Catherine Reid, former Treasurer David Skinner and former Administrator Janet George stood down from the national committee this financial year and we wish them well in their future endeavours.

Jennifer Eccles (President)

Statement of Financial Performance-GSNZ

Consistent with previous years the Society's income streams included membership subscriptions, sales revenue from publications, donations, interest from our investments, and any surplus made from conference registrations. Our outgoings include costs associated with the administration of the Society, support of lecture tours and the annual conference, production of newsletters to the membership, and sponsorship of publications. Consistent with our charitable status, a significant component of our income underpins grants and awards for Tertiary Students and Early Career Geoscientists, supporting their research and opportunities to present their work at geoscience conferences and meetings. A significant proportion of this assistance is through the Geological Awards Trust (Inc). A detailed audit of the Society's Consolidated Accounts and those of the Awards Trust is still pending at the time of writing this report. Figures cited below are drawn from these our unaudited online accounting system, Xero, and are therefore, provisional only.

The 2018-2019 financial year was the Society's first year using Xero and fully electronic banking. For the most part this change has significantly increased the efficiency of day-to-day activities, particularly around online dual authorisations for payments. To that end our Conference Accounts are now closed and the Publications Accounts will follow shortly. The need for cheques is now very much occasional, with the strong preference of nearly all suppliers/recipients being electronic payment. The integration with our membership database and subscription service, CLAD Online, will link the invoicing, payment and reconciliation of subscriptions in the future. Following the advice of our auditors, Dent & Heath, we will continue to find ways to simplify the reporting lines further to aid transparency and sustainability of our financial management.

The success of the Geosciences 2018 conference realised a \$25K surplus, which provided leverage to sponsor student subscriptions and travels grants for Geosciences 2019. In contrast to previous years, \$124K in conference registrations came directly into the Society's accounts and in turn over \$106K of direct expenses were paid. This did make for additional work, particularly around the GST reconciliation. Despite the low interest rates the 2018-19 financial year saw small increases in revenue from interest earned, primarily from improved use of cash reserves in the Ready Access and Cheque accounts for term investments. An example being the general accounts earning over \$2,700 more interest than the previous year. Memberships subscriptions fell slightly to \$35,966 but remain a

significant source of discretionary income for the Society. *A Continent on the Move* (2nd ed) remains a solid seller with nearly \$7K in income and 278 copies sold, but there is a notable decrease in sales as the edition ages. We were recipients of a \$10,460 grant from the Stout Trust (facilitated by Simon Nathan) to assist in the production of *Flying High*, the book on the photography of Lloyd Homer.

A total of \$11,134 of awards were supported from the general accounts, along with \$2,607 towards the Hochstetter Lecture tour, \$6,992 for the Society's quarterly newsletter, and \$1,031 for the Historical Studies Group newsletter.

In the Geological Awards Trust, modest interest rates realised \$18,350 of growth in the consolidated term investments to \$582,951, and disbursed \$10,900 for the 11 awards made.

It is timely to thank all those who have contributed to the Society through donations, sponsorship and their time. Our ongoing support of student science projects, career development and awards etc is significantly enhanced by your generosity.

Alan Orpin (Treasurer)

Minutes of the Last AGM

The 9th Annual General Meeting of the Geoscience Society of New Zealand (Inc)

Venue: The Ballroom, Napier Conference Centre

Date: Thursday 29 November 2018, 2:10pm.

1) Welcome and Apologies.

The President (Jennifer Eccles) welcomed 98 members of the Society to the meeting. The following apologies were recorded: Adrian Pittari, James Scott, Andrew Rees, Sam McColl, Matt Sagar, Glenn Vallendar, David Lowe, Jack Grant Mackie, Christof Mueller

A record of all those present is attached as Appendix A

2) Minutes of the 8th AGM of the Geoscience Society of New Zealand

It was moved the minutes of the 8th AGM of the Geoscience Society of New Zealand, held on 1 December 2017, Auckland, as published in the Annual Report be accepted as a true and accurate record of the meeting.

Proposed: Jen Eccles; Seconded: Alan Orpin; carried

3) Matters Arising from the 2017 Minutes

No matters arising from previous minutes from the floor

4) 2018 Interim Reports

a) President

See President's Report Appendix B

b) Treasurer

See Treasurer's Report Appendix C

No questions from the floor re the finances

It was moved that the Consolidated accounts be accepted

Proposed: Bruce Haywood; Seconded, Nick Powell; carried

c) Administrator

See Administrator's report Appendix D

d) Newsletter Editor

See Editor's report Appendix E

David Skinner spoke to the existence of the HSG and reminded members to contribute to this important journal.

5) Annual Report, for year ended 31st March 2018, including President's Report, Financial Accounts, Membership Report and Reports from Branches, subcommittees and Special Interest Groups

It was moved that the Annual Report be accepted.

Proposed: Jenifer Eccles; Seconded Catherine Reid; carried

6) Election of Officers and Committee for 2018/2019

Thank you to the Committee of 2018, in particular the following members who will be stepping down:

Catherine Reid (Secretary; Canterbury)

David Skinner (Former Treasurer)

Janet George (Former Administrator)

Office Holders

President: Jennifer Eccles (Auckland) – eligible for re-election

Proposed; Catherine Reid; seconded David Skinner; carried

Vice-President: James Scott (Otago) - eligible for re-election

Proposed Jennifer Eccles; seconded Ewan Fordyce, carried

Secretary: Richard Wysoczanski (Wellington)

Proposed: Jennifer Eccles; Seconded: Susi Woelz; carried

Treasurer: Alan Orpin (Wellington) – eligible for re-election

Proposed: Jennifer Eccles; Seconded Danielle Lyndsay, carried

Five elected committee members

Matt Sagar (Wellington) – eligible for re-election

Sam McColl (Manawatu) – eligible for re-election

Andrew Rees (Wellington) – eligible for re-election

Ian Hamling (Wellington) - eligible for re-election

Alex Nichols (Canterbury) – nominated by Catherine Reid; Seconded Georg Zellmer; carried

John Townend raised issue of gender balance in the committee. It was discussed that the committee had already noted and discussed this and Vice President James Scott especially, is very passionate about this issue however we are confident that the trend will swing in due course. As there is only one vacancy available this year it was unfair to expect the Canterbury Branch to necessarily appoint another woman (the last two Canterbury representatives have been women).

Co-opted Members and Appointments

Immediate Past President (ex officio) Adrian Pittari

Newsletter Editor (co-opted) Glenn Vallender

Web Master Hugh Grenfell

Administrator Nicki Sayers

Co-opted Kate Ackers

Acknowledgement of Committee and Subcommittee roles

Publications Convenor: Matt Sagar

Publications Sales: Sam McColl

Convenors of Awards: James Scott

Geoheritage: Bruce Hayward

FRED: Hamish Campbell (stepping down and replacement TBC)

Geophysical Affairs subcommittees: Ian Hamling

7) Motions

a) Treasurers Honorarium

Motion: That upon the request of the current Honorary Treasurer there will not be an honorarium budgeted or paid for the coming year.

Proposed Jennifer Eccles, seconded Martha Savage, carried

b) Appointment of Auditor

Motion: That Dent & Heath be re-appointed as the Society's Auditor.
Proposed Alan Orpin; seconded David Skinner; carried

c) Rule change

Background: Through time the society has given members inconsistent amounts of leeway in regards to retaining membership privileges after 'financial' membership has lapsed. This has caused a degree of confusion when claiming membership for conference membership or award eligibility. To ensure consistency going forward the following rule change is proposed:

Motion: Change to Rule 3d) Any Ordinary member whose annual subscription is more than six months in arrears shall be declared un-financial and will cease to receive the benefits of membership

Proposed Jennifer Eccles; seconded Susi Woelz; carried

8) Award Trustee Elections

Motion: To confirm Alan Orpin (Treasurer), Adrian Pittari (Immediate Past President), Jennifer Eccles (President), James Scott (Vice-President) as Trustees for the GSNZ Awards Trust.

There was a call for one additional member from the floor. David Skinner, who is stepping down as a trustee spoke to the (minimal) duties involved with this role Catherine Reid self-nominated; seconded; Julie Palmer; carried

9) Any other business

Membership to the International Unions is now funded through the Catalyst Fund and annual reporting on NZ's participation in these bodies is required. If they may not already know you may like to alert the NZ representative/delegate to any activities going on with:

International Union of Geological Sciences (IUGS) - Nick Mortimer
International Union of Geodesy and Geophysics – David Rhoades
International Palaeontological Association – James Crampton

International Mineralogical Association – Pat Browne

Helen Bostock queried whether INQUA was part of the international unions?

John Townend raised the issue of topics in the newsletter not reflecting the most up to date research being carried out, especially by younger members in universities. All members encouraged to contribute and submit articles for the newsletter, especially students/young researchers.

Meeting closed 3.08 pm

National Structure

Committee members

New and continuing officers and Committee members elected at the 2018 AGM, co-opted members and appointments at or after the AGM and ongoing members of the previous committee:

Elected Officers @ 2018 AGM		First Elected
Jennifer Eccles (President)	University of Auckland	2012
Richard Wysoczanski (Secretary)	NIWA	2016
James Scott, Vice President	University of Otago	2016
Alan Orpin (Treasurer)	NIWA	2017
Committee		
Adrian Pittari (Immediate Past President)	University of Waikato	2008
Andrew Rees	University of Wellington	2017
Ian Hamling	GNS Science	2017
Matt Sagar	GNS Science	2016
Sam McColl	Massey University	2016
Alex Nichols	University of Canterbury	2018
Appointments¹ / Co-opted²		
¹ Hugh Grenfell, Web master, continuing	University of Auckland	2007
¹ Nicki Sayers, Contractor		2018
² Glenn Vallender, Newsletter Editor, continuing	EdRSR	2011
² Kate Akers, Student Representative	Massey University	2018
Outgoing		
Catherine Reid	University of Canterbury	2012
David Skinner	GNS Science	1978-79; 99
¹ Janet George	Absolutely Organised	2007



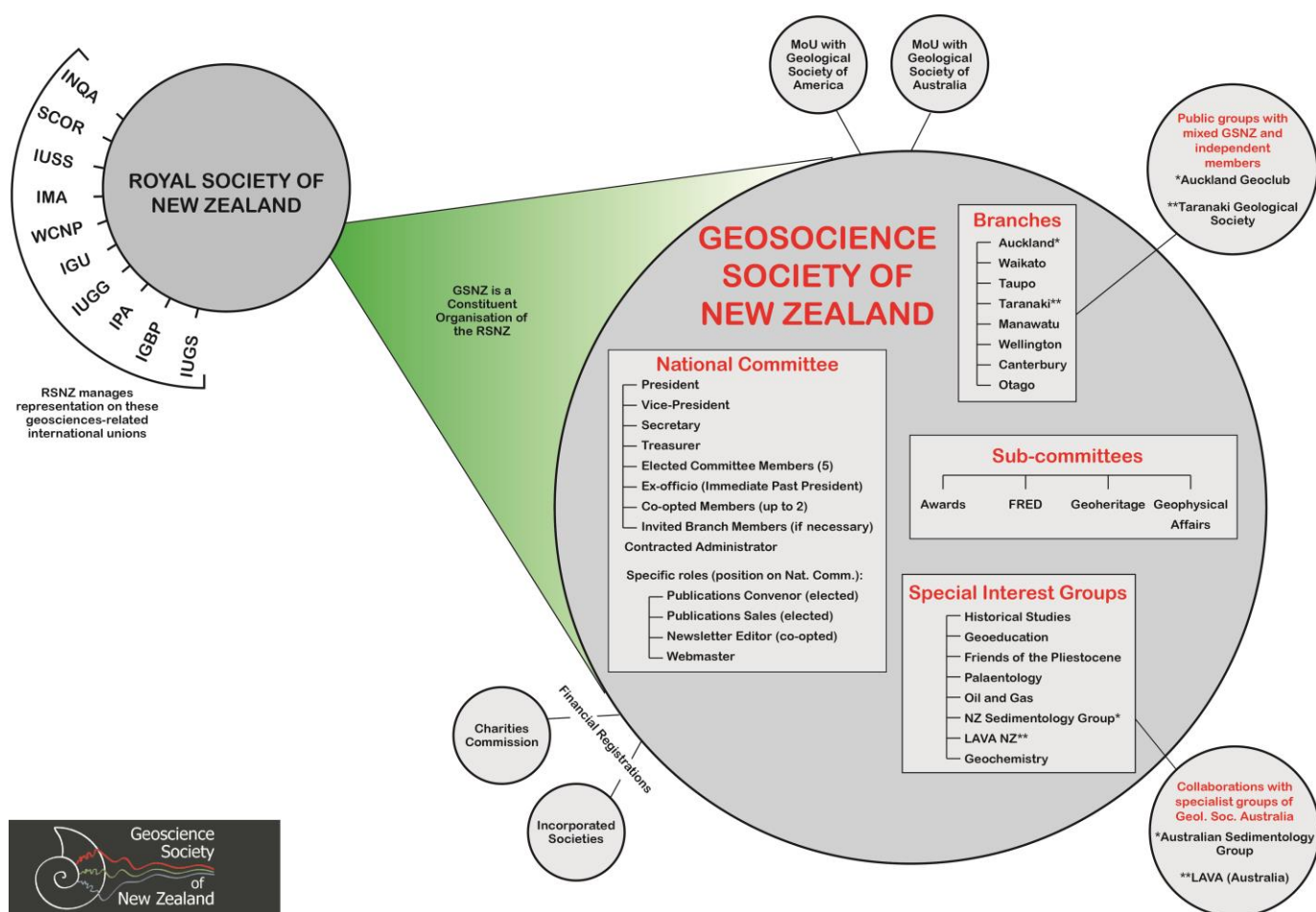
First meeting of the 2018 National Committee

Back (L to R): Richard Wysoczanski, James Scott, Ian Hamling, David Skinner, Adrian Pittari, Matt Sagar, Glenn Vallender,

Front (L to R): Jennifer Eccles, Janet George, Alan Orpin

Absent: Sam McColl and Catherine Reid

Structure



Relationships:

Current Memoranda of Understanding:

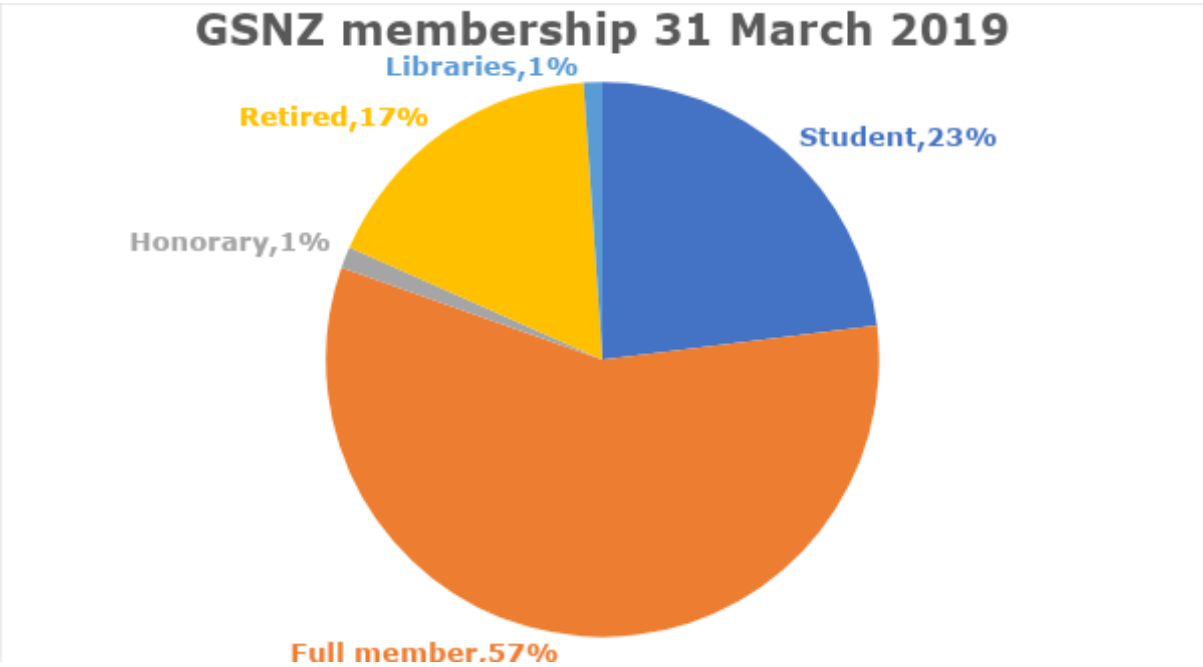
With Geological Society of Australia (effective 1 June 2017 – 31 May 2020)

With Geological Society of America (effective 18 January 2018 – 17 January 2021)

With GNS Science regarding FRED (effective 8 August 2018 – 7 August 2021)

Membership

As of 31 March 2019 the GSNZ had 642 members, slightly fewer than at the same time last year. This was made up of the following membership types



Honorary Life Members

In 2018 Janet George was awarded Honorary Life Membership and joins a group with seven others as follows:

Year	Life Member
2018	Janet George
2017	Campbell Nelson
2016	Mike Johnston
2015	Jack Grant-Mackie
2014	David Skinner
2013	Bruce Hayward
2012	Simon Nathan
2011	Bruce Thompson

George Risk

Regional statistics

Based on self-indication of Branch membership

Region	Branch membership
Auckland	103
Waikato	44
Taupo	14
Taranaki	13
Manawatu	27
Wellington	207
Canterbury	69
Otago	80
Overseas	75

Membership survey

The inaugural GSNZ membership survey was conducted at GSNZ conference in November 2018 and online using Survey Monkey in January and February 2019.

At conference, members were invited to provide their views on post it notes on posters on the walls of the GSNZ booth. Segmentation was by length of membership (5 years or less; 6-19 years; and 20 years or more) and members were asked to post their responses to four questions:

- What do you like best about GSNZ?
- What can we do better?
- Other benefits you'd like?
- Are you willing to get more involved?

Members were encouraged to take part by Nicki, the GSNZ Administrator who initiated the survey. Whilst no formal count of how many members took part was kept, she estimates between 20 and 30 members shared their views.

The second round (asking the same questions, with one addition asking how members currently interacted with the Society) was conducted online using Survey Monkey, to capture the views of members who has not been at

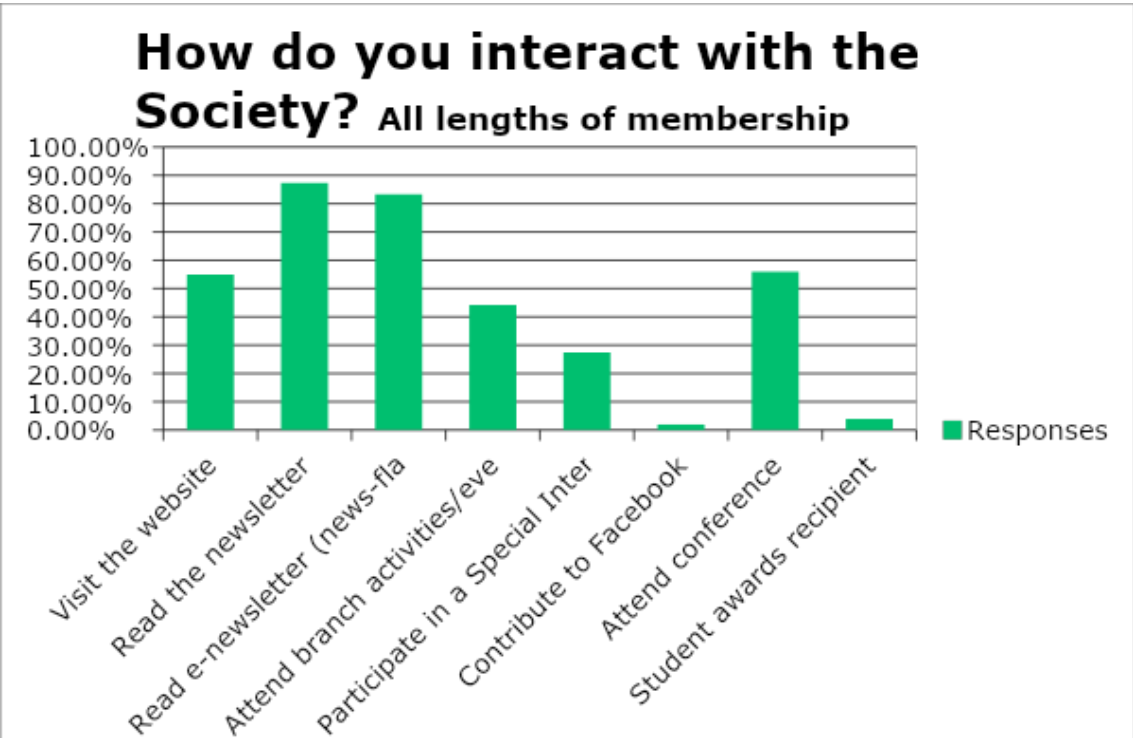
conference. This was successfully delivered to 640 members via a Newsflash on 16 January. A reminder was sent on 31 January (again as part of a Newsflash). The survey closed on 10 February and we received 102 responses (16% response rate).

Who responded?

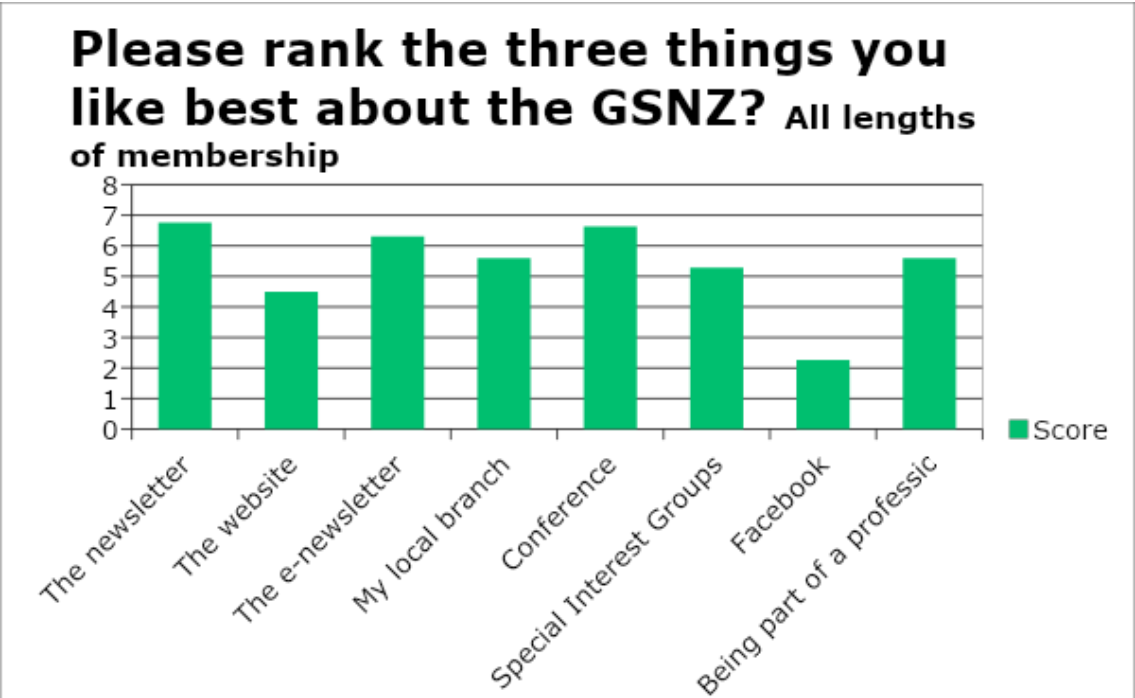
From the online survey we received responses from the following members

Responses received by membership type		Responses received by length of membership	
Student	7%	0-5 years	21%
Full member	64%	6-19 years	25%
Retired	25%	20 years or more	54%
Honorary	4%		

Responses



Across all lengths of memberships, the top four ways of interacting (website, newsletter, e-news/newsflashes, conference) remained constant. Compared with the result shown above, the conference was the main way of interacting in the 0-5 years category; the newsletter and e-news/newsflashes were ranked more highly with the 6-19 years and the 20 year or over cohorts.



Again, the responses were broadly similar across all the lengths of membership, with being part of a professional network scoring more highly with 0-5 years and 6-19 years. Facebook was the least popular across all groups.

Areas for improvement and additional benefits

The overarching themes from these two open ended questions were around improvements in communication across all channels (primarily website and newsletter); a young voice being heard and more diversity; and more support and better publicity for branch activities.

Thank you to everyone who took part.

Changes to administration

During the year there have also been a couple of changes to the way the Society runs its operations:

- We switched our email provider to G-Suite. In addition to the email service, this provides the committee and administrator access to a shared drive for more efficient working and has ample storage space for current and historical documents.
- We started using Mail Chimp for our Newsflashes. This replaced the pdf documents we were using previously, which some members had trouble opening, and has enabled us to provide you with a more professional looking publication.

Publications

Publication Sales (re-elected December 2018): Sam McColl (Massey University)

Publications Convenor (re-elected December 2018): Matt Sagar (GNS Science)

Publication Projects

The following GSNZ-approved projects were in progress and/or published in the 2018–19 financial year. Additional proposals that were received and were still under consideration during this time are not included here.

Several hundred copies of older publications of which we hold excess stock in the GNS Science, Avalon basement were made available for free to GSNZ members at the Geosciences 2018 conference in Napier. Subsequently, some of these publications have also been given to the University of Auckland and Victoria University of Wellington for teaching purposes, and geoscience interest groups. These publications are listed in the table below:

Title	Series	Volume	Year
Walks Through Aucklands Geological Past	Guidebook	5	1982
Cobb Valley	Guidebook	6	1984
Granite and Marble	Guidebook	8	1987
Queenstown	Guidebook	9	1988
Red Rocks	Guidebook	11	1994
A Geologist Remembers	Misc. Pub.	102	1999
From Mountain to Meteorites	Misc. Pub.	109	2001

The working life of Michael John Selby (1936–2018)

Campbell S. Nelson (University of Waikato) authored a tribute to and summary of the working life of the late Michael J. Selby, who was regarded as a highly influential late 20th century geomorphologist and university leader. This was published as Miscellaneous Publication 150 in eBook format that is freely available from the [Society website](#).

Geosciences 2018 conference, Napier, Abstract Volume

Sagar MW, Prebble JG ed. 2018. Geosciences 2018: Abstract Volume. Miscellaneous Publication 151A. Wellington, New Zealand, Geoscience Society of New Zealand. 313 p.

Geosciences 2018 conference, Napier, Field Trip Guides

Sagar MW, Massiot C, Hopkins JL ed. 2018. Geosciences 2018: Field Trip Guides. Miscellaneous Publication 151B. Wellington, New Zealand, Geoscience Society of New Zealand.

- FT1: Crampton JS, Hines B, Little TA. Subduction to subduction: 100 million years on the eastern margin of Zealandia, 48 pp.
- FT2: Scott B, Massiot C. White Island, 18 pp.
- FT4: Kamp PJJ. Hawke's Bay monocline and forearc basin, 33 p.
- FT5: Pettinga JR, Boulton C. Structural styles and deformation fabrics of an emergent accretionary ridge, Hikurangi margin, southern Hawke's Bay: from broken formation and dismembered units to tectonic mélange, 26 pp.
- FT6: Campbell HJ, Hudson N, Raine JI, MacFarlan D. Jurassic sequences of the North Island, 42 p.

Abstract Volume and Field Guide of the IAVCEI 5th Volcanic Geology Workshop

Massey University and the University of Auckland co-hosted the IAVCEI 5th Volcanic Geology Workshop, held 25 February–4 March 2019 ([website](#)). The Geoscience Society of New Zealand published the Abstract Volume and Field Guide as Miscellaneous Publication 152, which is [available from the workshop website](#).

Book on Lloyd Homer, a photographer, by Simon Nathan

The typesetting for this book is presently being finalised. It is anticipated that it will be published well before the end 2019 as Miscellaneous Publication 153.

Publication Sales

Publications	Retail price	Quantity sold	Wholesale price	Quantity sold	Value Sold
Auckland guide	\$13.00	1			\$13.00
Central Rocks	\$20.00	3			\$60.00
Cobb Valley	\$15.50	2			\$31.00
Field Wallet	\$10.00	14			\$140.00
Geyserland	\$20.00	3	\$12.00	24	\$348.00
Granite and Marble	\$15.50	1			\$15.50
Harold Wellman	\$20.00	2			\$40.00
James Hector	\$20.00	1	\$17.50	51	\$912.50
Queenstown guide	\$15.00	1			\$15.00
Red Rocks	\$20.00	1			\$20.00
Volcanoes	\$50.00	4			\$200.00
Wandering River	\$20.00	11	\$12.00	2	\$244.00
Total					\$2039.00

In addition, the following publications were sold on the Society's behalf by Potton & Burton and GNS Science

Publications	Number sold	Value Sold
A Continent on the Move	278	\$7419.24

Awards & Grants

Society Awards

An Awards subcommittee was appointed and convened by Awards Chair, James Scott, and awards were made for all of the Society prizes available in 2018 with the exception of the Hornibrook Award and the Giggenbach Award, which both had no applicants. S.J. Hastie Scholarships were presented at the Geosciences 2018 conference closing ceremony and other awards were presented at the Geosciences 2018 conference dinner.

In early 2019 the Awards portion of the website was overhauled, instructions clarified and nomination templates standardised. It is hoped that this will encourage more applicants.

The Society awarded the following in 2018:

Name of Award	Recipient	Details
McKay Hammer	<i>Laura Wallace, GNS Science</i>	For a body of work that has been transformative in our understanding of the seismic behaviour of the Hikurangi subduction margin.
New Zealand Geophysics Prize	<i>Ian Hamling, GNS Science</i>	For Complex multifault rupture during the 2016 Mw 7.8 Kaikōura earthquake, New Zealand. Science 356(6334).
Hochstetter Lecturer	<i>Bill Fry, GNS Science</i>	Distant sourced tsunamis.
Kingma Award	<i>Karen Britten, GNS Science</i>	
Honorary Life Member	<i>Janet George</i>	
Harold Wellman Prize	<i>Helen Bint</i>	Chatham Island Palaeocene fossil sponges.
Wellman Research Award	<i>Stephanie Junior Otago University</i>	As to whether Au concentration, residence and mobility correlates to mantle chemistry, which may provide a new understanding of preferential

		emplacement of gold in Earth's crust.
Jim Ansell Geophysics Scholarship	<i>Shreya Kanakiya Auckland University</i>	
Werner Gigggenbach Prize for Geochemistry		Not awarded 2018
S.J. Hastie Scholarship	<i>Holly Harvey-Wishart (Waikato), Hannah Walters (Massey), Phillipa Morris (Victoria), Abbey Douglas (Canterbury), Rilee Thomas (Otago)</i>	
Young Researcher Travel Award	<i>Stephanie Junior (Otago University) Mirja Heinrich (Auckland University)</i>	Australian Synchrotron New User Symposium. Cities on Volcanoes Conference.
NZ Sage Scholarship	<i>Clarrie Macklin (Victoria Uni Wellington)</i>	Australian Synchrotron New User Symposium. Cities on Volcanoes Conference.
Pullar-Vucetich Award	<i>Magret Damaschke (Massey University)</i>	Tephrostratigraphic research into the eruptive history of Mount Taranaki.

The Young Researcher Travel Grant, for young society members to attend their first international conference, was originally set up to disburse 'profits' from Geoscience Conferences. This fund has proved immensely popular and although structured to allow applications in three rounds annually, was already oversubscribed by worthy applicants in the first round of the 2017-2018 financial year. After assessment by the national committee funds were awarded to six applicants Sonja Bermudez, GNS Science/Victoria University of Wellington; Emanuele Giacalone, University of Otago; Charline Lormand, Massey University; May Sas, University of Auckland; Elham Yousefzadeh, University of Waikato and Rosie Cole, University of Otago. It has been noted that the students applying to this fund

are, when looking at overall applications/awards to date, unevenly distributed by supervisor through our community and we encourage more members to bring this opportunity to the attention of their students.

The NZ SAGE Scholarship, sponsored by EQC, GNS Science and the GSNZ, was awarded in April 2018 to Clarrie Macklin of Victoria University of Wellington to attend the 2018 Summer of Applied Geophysics Experience in New Mexico, USA.

Student Travel Grants

A total of 76 students attending the 2018 Geosciences Conference in Napier were awarded travel grants scaled to distance of travel with \$20 going to Taupo based students, \$25 going to Massey University students, \$40 going to Waikato students, \$45 going to Victoria University of Wellington students, \$55 to University of Auckland students, \$100 to University of Canterbury students and to \$150 to Otago students, totalling \$5,995.

Annual Conference Prizes

Six students were awarded prizes for best oral presentation and best poster presentations at the 2018 Geosciences Conference and were presented at the closing ceremony. Cash prizes came to a total of \$2000.

Oral Presentation Winners

Best Oral (Sponsored by Taylor and Francis and RSNZ)	Alec Yates	Victoria University of Wellington
Runner Up	James Clarke	University of Auckland
Runner Up	Jonathan Simpson	University of Auckland

Poster Presentation Winners

Best Poster	Janina Gillies	University of Canterbury
Runner Up	Fee Arens	University of Bristol
Runner Up	Clarrie Macklin	Victoria University of Wellington

Additional prizes awarded at the conference dinner were for the **Geosciences 2018 photo competition**:

1st place – Kate Pedley (University of Canterbury)



Painted Hills, John day Fossil Beds NM, Oregon, USA

The Painted Hills are claystone and siltstone layers derived from weathered volcanic ash and tuff deposits aged approximately 35 Ma during a period of significant climate change in an ancient river floodplain. Mineral colours are derived from iron weathering in the volcanic ash, carbon/organics and clay-rich layers. The Painted Hills are a key site within the broader John day Fossil Beds National Monument. The small footprints have been created by foxes, rabbit and deer and give an indication of the scale of the hills.

2nd place – Sally Watson (NIWA)

Painted Cliffs in the Maria Island National Park, Australia

3rd place – Katelyn Johnson (Antarctic Research Centre, Victoria University of Wellington)

French Valley in Torres del Paine National Park, Patagonia

A national GSNZ competition was held for Hectors Day. This involved a Geobake with entries, enjoyed at branch level, posted on facebook and voted for. The winner was Oliver McLeod from the University of Waikato for his Basaltic Volcanism Styles Cupcakes. He was awarded a Geoscience Prize Pack of a year's free GSNZ membership, a geological hammer and a copy of 'Continent on the Move'.

Basaltic eruptions

Oliver McLeod



Basaltic volcanism styles, as observed on the recently studied Pirongia Volcano. It is an arc volcano; originally perhaps an island or coastal, formed by initial phreatomagmatic activity, followed by multi-stage shield building with lava lakes and domes. The edifice was broadened by flank fissures and scoria cones over 1 Ma.

A number of other awards, prizes and grants are awarded by individual branches of the Society. See the Branch reports for these.

Communications

Newsletter

Three issues of the GSNZ Newsletter are produced each year. Along with Newsflashes, the Newsletter remains an important connector and forum for Society members nationally and internationally. A constant challenge is to attract younger society members to contribute ideas, thoughts, news and articles, in workplaces that have increasing demands on time and energy. The Newsletters are eventually electronically available to all members. The editorship of Glenn Vallender and contribution of content by members is greatly appreciated by the Society.

The newsletter continues to be the main conduit of information, articles and issues that affect the GSNZ community. The latest issue #27 had 210 hard copies posted out and of these 12% were International and of these 27, 8% were posted to Australia. New Zealand postage was 87%. Approximately 490 (70%) of members now receive their Newsletter by email pdf.

Not surprisingly, the main problem also remains the same as has been expressed many times since the Society's inception: how to manageably encourage, solicit and engage members in contributing news, views and geoscience interesting materials to their Society. Contributors tend to be regular and it is difficult to attract new contributors to contribute on a regular basis. This issue is acknowledged and many ideas have been suggested (See issue 27 editorial) to include new materials from a variety of sources. Not all members are institutionalised and many members want to be kept up to date with recent geoscience issues, controversies and Society affairs. Approximately 11% of membership includes individuals with a general interest in geoscience and non-institutional (Annual Report April 2017-March 2018).

Note that the newsletter is sent out electronically to all members as a matter of course. Newsletters are archived on the GSNZ website and publicly available 6 months after publication.

Newsflashes and Email briefs

Eleven electronic *News Flashes* (June 2018, August 2018, September 2017, October 2018, November 2018, December 2018, January 2018, February 2018 and 3 x March 2018) were sent out during the year, usually after each National Committing Meeting or more frequently if the need arose in the run up to the conference, Hector's Day or in response to the death of a prominent member. As of December 2018 the pdf News Flash was changed to a Mail Chimp format that facilitated great access to content from the body of the email sent and enabled rates of opening of the communications to be assessed. Approximately 60% of members opened links of content sent.

News Flashes are emailed to a database of approximately 900 people including current and (recently) past members.

Website

The website (www.gsnz.org.nz) is kept up to date by web master, Hugh Grenfell, a long-time member of the Society. The current website was designed by GetNet in 2004 and is hosted and maintained by Freedom Print & Design (both companies located in Palmerston North).

Facebook

A Facebook presence was set up in 2012 (<https://www.facebook.com/GeoSocNZ/>) and upcoming events are posted here along with topics of interest as they occur. There are currently 972 "friends or likes". The GSNZ Administrator and a number of society members with administrator rights, are able to post current items of interest.

Branch Reports

Auckland

Branch Name	Auckland			
Branch Summary/ Description	The Auckland Branch was established under the former 'Geological Society of NZ' in 1956 and was centred around the former Geology Department at the University of Auckland, now a part of the School of Environment. The Auckland GeoClub (established in 1992 at the Auckland Museum) is an affiliated section of the Auckland Branch comprising amateurs and professionals with a common interest in Auckland's geology and fossils. The Auckland GeoClub is run autonomously, and many of its members are not members of the national body (Geoscience Society of N.Z.), except those registered for both. However, the GeoClub liaises frequently, and jointly runs activities with, the Auckland Branch and its activities are traditionally included with the Auckland Branch activities when the Auckland Branch reports to the National Committee.			
Branch Committee for 2018-19				
Committee Members (please list names)	GeoCub committee: Bruce Hayward (convenor), Gary Carr, Wendy Goad, Hugh Grenfell, Jill Kenny (Geocene editor), Christine Major (Treasurer), Peter Scott, Peter Daymond-King, Maureen Burke, Kath Prickett			
Branch representative on National Committee	Jennifer Eccles			
No. of paid GSNZ members as at 31 March 2019	103			
No. of Geoclub members (including some branch members)	104			
BRANCH ACTIVITIES AND EVENTS				
Activity (seminar, field trip, lecture, etc)	Description	Date Held	Total (member and non- member) attendance	
Hochstetter Lecture – Alan Cooper	The Pounamu Terrane: a new	Tuesday 11th September 2018	51	

	component in the assembly of Zealandia			
Complementary Hochstetter Lecture – Alan Cooper	Carbonitites	Tuesday 11th September 2018	20	
Hector Day Geobake Morning Tea/Christchurch Remembrance		Monday 18 th March	20	
Geoclub lecture – Tracey Howe, Sophia Tsang, Elaine Smidt	Aspects of Auckland volcanic field	Tuesday Apr	65	
Geoclub lecture – Mai Sas, Leone Peti	Cascade Arc, Orakei Basin	Tuesday May	56	
Geoclub lecture – Paul Williams	Te Waikorupupu Springs	Tuesday Jun	43	
Geoclub lecture – Ian Smith	Tonga – Kermadec Arc	Tuesday Jul	41	
Geoclub lecture – Bruce Hayward & Phil Kirk	Geology of Iceland & Mt Eden	Tuesday Aug	52	
Geoclub lecture - Michael Petterson	Planetary health and geology	Tuesday Sep	38	
Geoclub lecture – Drew Lorrey	Swamp kauri	Tuesday Oct	47	
Geoclub lecture – reef islands	Murray Ford	Tuesday Nov	39	
Geoclub lectures – Geoclub members	Members 5-10 min presentations	Tuesday Dec	34	
Geoclub lecture – Shannen Mills, Mirja Heinrich, James Clark	Mayor I, Tongariro, volcanic earthquakes	Tuesday Feb	61	

Geoclub lecture – Jennifer Eccles	GSNZ President lecture	Tuesday Mar	46	
Geoclub field trip 1 day	Martins Bay	April	12	
Geoclub field trip 7 day	Great Barrier I	April-May	18	
Geoclub field trip half day	Anawhata	May	17	
Geoclub field trip 1 day	Thames School of Mines	Jun	12	
Geoclub field trip half day	Howick coast	July	22	
Geoclub field trip 1 day	Rangitoto	Aug	14	
Geoclub field trip half day	Hampton Park	Oct	18	
Geoclub field trip 7 day	Kaikoura & Christchurch	Nov	29	
Geoclub field trip 1 day	Hamiltons Gap	Dec	6	
Geoclub field trip 1 day	Nikau Cave	Feb	15	
Geoclub field trip half day	Matukutureia volcano	Mar	16	
Geoclub field trip 1 day	Pakaurangi and Puketi Pts	Mar	15	
Geoclub Auckland Heritage Festival field trip	Mangere Volcano	Oct	(20)	
Geoclub Auckland Heritage Festival field trip	Rooseville tuff ring	Oct	(12)	
Geoclub Auckland Heritage Festival field trip	Pukekohe volcanoes	Oct	(22)	

Geoclub Auckland Heritage Festival field trip – 6 hr	Central Auckland volcanoes	Oct	(57)	
Geoclub Auckland Heritage Festival field trip – 6 hr	Mangere volcanoes	Oct	(27)	
Geoclub Auckland Heritage Festival field trip – 6 hr	N Shore volcanoes	Oct	(22)	
Geoclub Auckland Heritage Festival field trip – 6 hr	Southern isthmus volcanoes	Oct	(23)	
Geoclub Auckland Heritage Festival field trip – 6 hr	East Isthmus volcanoes	Oct	(17)	
Geoclub Auckland Heritage Festival field trip – 6 hr	Manukau volcanoes	Oct	(19)	
Geoclub Auckland Heritage Festival field trip – 6 hr	Tamaki volcanoes	Oct	(20)	
Geoclub pot luck dinner & quiz	Debron Ave	Jul	29	
BRANCH PRIZES				
Name of Prize	Winner(s)		Prize Value	
Central Auckland Science Fair – best planet Earth & beyond project			\$100 + books	
Mid Northland Science Fair – best planet Earth and beyond project			\$100 + books	
BRANCH PUBLICATIONS				
Geocene 17 http://www.gsnz.org.nz/pdf/ June. Articles by S.Rust, B.Hayward, J.Grant-Mackie, R. Ramsay, H. Grenfell				
Geocene 18 http://www.gsnz.org.nz/pdf/ Oct Articles by B.Hayward, R. Ramsay, G. Carr, J. Grant-Mackie				

ADDITIONAL BRANCH COMMENTS				
Geoclub facebook page https://www.facebook.com/akgeoclub/				
BRANCH ACCOUNTS				
Geoscience Society of New Zealand Auckland Branch				
Accounts 1/4/18-To Date 31/3/19				
Date	Particulars	Credit	Debit	Balance
Income				
	Opening balance			1951.44
	Branch Grant	0		
Sub-total		0		0
Expenditure				
	Student Science Fair (\$50 each to Auckland and Whangarei)		100	100
	Hochstetter Catering		80.19	80.19
	Hochstetter Dinner		80.5	80.5
Sub-total			260.69	
Totals				
	Opening balance carried forward			1951.44
	Income			0
	Total			1951.44
	Total Expenses			260.69
Balance				1690.75

Branch Name	Waikato		
Branch Summary/ Description	The Waikato Branch was established under the former 'Geological Society of NZ' in 1975 as a combined Waikato/Bay of Plenty (=Rotorua) Branch and was centred around the former Earth Sciences Department at the University of Waikato, now a part of the School of Science.		
Branch Committee for 2018-19			
Committee Members (please list names)	Adrian Pittari, Rochelle Hansen		
Branch representative on National Committee	Adrian Pittari		
No. of paid GSNZ members as at 31 March 2019	43		
BRANCH ACTIVITIES AND EVENTS			
Activity (seminar, field trip, lecture, etc)	Description	Date Held	Total (Member and Non-Member) Attendance
Hochstetter Lecture – Alan Cooper	The Pounamu Terrane: a new component in the assembly of Zealandia	12 Sep. 2018, 7:30 pm	~30
Hochstetter Supplementary Lecture – Alan Cooper	Carbonatites	12 Sep. 2018, 3:00 pm	~30
Hector Day – Geo-Bake	Branch afternoon tea	18 Mar. 2019, 3:30 pm	~10
Geoscience T- Shirts	University of Waikato Earth sciences branded T-Shirt sale; supported and promoted by the Waikato Branch	During Oct. 2018	N/A
BRANCH PRIZES			
Name of Prize	Winner(s)	Prize Value	

Waikato Regional Science and Technology Fair - contribution to Planet Earth and Beyond student prize category	Rebecca Foley (St. Peter's, Cambridge)	\$100
Annual University of Waikato <i>School of Science Postgraduate Conference</i> , Geoscience Society of NZ (Waikato) Award) for the best geoscience-related oral presentation	Holly Harvey-Wishart	\$100
BRANCH PUBLICATIONS		
ADDITIONAL BRANCH COMMENTS		

BRANCH ACCOUNTS			
	Debit	Credit	Balance
Balance at April 1, 2018			\$212.51
Hector Geobake (March 2018) Prize	\$60.00		
Branch grant		\$356.00	
Waikato Science Fair 2018 prize	\$100.00		
UoW Sci. Postgrad. Conf. - student prize	\$100.00		
Proceeds from Geoscience T-Shirt sales		\$1080.50	
Payment to T-Shirt Retailer	\$1078.70		
Balance at March 31, 2019			\$310.31

Taranaki

Branch Name	Taranaki
Branch Summary/Description	The Taranaki Geological Society (TGS) was founded in 1978 and, at the 1986 national AGM, it was affiliated to the former Geological (now Geoscience) Society of New Zealand (GSNZ) as the Taranaki Branch. The Taranaki Geological Society comprises members who are (1) also financial members of the GSNZ, and whom the national body recognise as the Taranaki Branch of the GSNZ; and (2) members who are solely registered for the local Taranaki Geological Society. Early on the TGS/Taranaki Branch met as a night class at Girl's High where they continue to meet. The TGS/Taranaki Branch supported the 1993

	publication of a Taranaki Field Guide and in 2002 became closely involved in the republication of Vince Neall's Volcanic History. Field trips, local and further afield, remain an integral part of the TGS's calendar (see below). Regularly monthly meetings feature speakers drawn from academia and industry, as well as local contributors.			
Branch Committee for 2018-19				
Committee Members (please list names)	Robert Park(President), Donald MacFarlan (Treasurer); Sue Hiilton (Secretary/Librarian); Mark Robbins (Newsletter); Colleen Field (Field Trips), Hugh Alexander (social events),			
Branch representative on National Committee	N/A			
No. of paid GSNZ members as at 31 March 2019	7			
No. of TGS members				
BRANCH ACTIVITIES AND EVENTS				
Activity (seminar, field trip, lecture, etc)	Description	Date Held	Members attended	Non-members attended
Karen Pratt local member	Patea Reef	16/4/18		
Jess Hillman GNS	Gas hydrates around New Zealand – geohazard and resource potential	7/5/18		
Mark Hearn Todd Energy	Development of an Onshore Taranaki Gas Field	11/6/18		
Teresa Gordon Civil Defence	Geohazard mitigation	2/7/18		
Caroline Holden GNS	Kaikoura Earthquake	6/8/18		

Hochstetter Lecture – Alan Cooper	Tectonics of the Haast Schist	20/9/18		
Bill Robertson Consultant	A history of mapping & surveying and application of new technology	1/10/18		
Margaret Bradshaw U. Canterbury	Antarctic fieldwork on Devonian rock: links with New Zealand and Australia	5/11/18		
Member's Night/ Xmas Gathering	Mark Robbins – Marlborough field trip; Science Fair Awardees	3/12/18		
Cornel E.J. de Ronde GNS	Brothers Volcano	3/2/19		
Don Macfarlan local member	The Rise & Fall of NZ Spiriferinids	4/3/19		
Jamey Stutz* U. Massey PhD Student	Collapse of the David Glacier, Antarctica at the Last Glacial Termination	1/4/19		

Manawatu

Branch Name	Manawatu
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Branch Summary/ Description	The Manawatu Branch was established under the former 'Geological Society of NZ' in 1979 and is centred around Massey University in Palmerston North, with a strong amateur involvement.			
Branch Committee for 2018-19				
Committee Members (please list names)	Julie Palmer			
Branch representative on National Committee	Sam McColl			
No. of paid GSNZ members as at 31 March 2019	27			
BRANCH ACTIVITIES AND EVENTS				
Activity (seminar, field trip, lecture, etc)	Description	Date Held	Members attended	Non-members attended
Hochstetter Lecture – Alan Cooper	Pounamu Terrane: a new component in the assembly of Zealandia	18 Sept	40	
Supplementary Lecture: Alan Cooper	Carbonatites	19 Sept	20	
BRANCH PRIZES				
Name of Prize		Winner(s)		Prize Value
Manawatu Branch Geoscience Society of NZ prize at Manawatu Science and Technology Fair		Ella Wingfield-Smith from Palmerston North Intermediate Normal School. Project title: "Erosion"		Book – valued at \$50

BRANCH ACCOUNTS

GSNZ MANAWATU BRANCH TREASURER'S REPORT 1 APRIL 2019

Report for Financial Year 1.4.18 to 31.3.19

I& E Account

Opening Balance 1.4.18\$		179.56
Income		
Subscriptions & donations	\$	-
Branch Grant	\$	-
Transfer from Bonus Saver	\$	200.00
Expenses		
AP to Savings Account	-\$	120.00
Meeting Expenses	\$	-
Manawatu Science Fair Prize	-\$	50.00
Student Talk Evening Prize	\$	-
Postage	\$	-
Closing Balance 31.3.19	\$	209.56

Cash and Cheque Account

Cash in hand 1 April 2018	\$	27.50
Cash received through year	\$	-
Cash spent through year	\$	-
Cash in hand 31 March 2019	\$	27.50

Westpac cheque account balance	\$	116.76
Cheques presented from 2017	\$	-
Total Cash and Cheque Account	\$	144.26
Bonus Saver Account		
Opening Balance 1.4.18	\$	1,880.30
Income		
AP from Cheque Account	\$	120.00
Interest	\$	11.53
Expenses		
Transfer to cheque account	-\$	200.00
Closing Balance 31.3.19	\$	1,811.83
Accounts Prepared by Julie Palmer, 15 July 2019		

Wellington

Branch Name	Wellington
Branch Summary/ Description	The Wellington Branch was established under the former 'Geological Society of NZ' in 1979, but prior to this there was an active Geology Section of the Royal Society of New Zealand. This branch was centred around the former Geology Department at Victoria University of Wellington, now a part of the School of Geography, Environment and Earth Sciences; and the former New Zealand Geological Survey and the New Zealand

	Oceanographic Institute of the Department of Scientific and Industrial Research, members of which are now mainly from the Crown Research Institutes of GNS Science and NIWA.			
Branch Committee for 2018-19				
Committee Members (please list names)	Andrew Rees (chair), Scott Nodder (secretary), Liz Kennedy (treasurer), Joe Prebble (talk coordinator), Cliff Atkins, Nicola Litchfield, Ian Hambling.			
Branch representative on National Committee	Andrew Rees			
No. of paid GSNZ members as at 31 March 2019	205			
BRANCH ACTIVITIES AND EVENTS				
Activity (seminar, field trip, lecture, etc)	Description	Date Held	Total Member and non-member attendance	Non-members attended
Talk - Rob McKay	Ross Sea West Antarctic Ice Sheet History in the Late Cenozoic: Initial sediment core results from IODP Expedition 374	Thursday 24 May	55	N/A
Talk - Laura Wallace and Phil Barnes	Unlocking the secrets of slow slip by drilling at the Hikurangi subduction zone: an overview of IODP expeditions 372 and 375	Thursday 21 June	45	N/A
Talk - John Townend	Hot rocks and heavy rain: key results from the Deep Fault Drilling Project	Thursday 26 July	60-80	N/A

Talk - Rupert Sutherland	Drilling Reveals Continental-scale Impacts of Eocene Tonga-Kermadec Subduction Initiation	Thursday 16 August	60	N/A
AGM	Annual General Meeting	Thursday 16 August	60	N/A
Hochstetter Lecture – Alan Cooper	The Pounamu Terrane: a new component in the assembly of Zealandia	Tuesday 25 September	30-40	N/A
Supplementary Hochstetter Lecture – Alan Cooper	Carbonatites	Wednesday 26 September	30-40	N/A
Student talks	<p>2018 Beanland-Thornley Prize Night</p> <p>Jamey Stutz: Rapid collapse of David Glacier at the Last Glacial Termination.</p> <p>Emma Watson: Using paleomagnetism to test rolling hinge behaviour of an active low angle normal fault, Papua New Guinea.</p> <p>Abhijith Uv: Insights into ocean bipolar see saw from a new deep ice core record from Ross Sea region, West Antarctica'.</p>	Thursday 25 October	60	N/A

	Gavin Holden: A new uplift rate model for southern Northwest Nelson, South Island, New Zealand revealed by cosmogenic nuclide dating of the sediments of Bulmer Cavern.			
Talk - Lionel Carter	Evolution of the SW Pacific Ocean Gateway – the Legacy of Ocean Drilling Program Leg 181	Thursday 22 November	40	N/A
BRANCH PRIZES				
Name of Prize		Winner(s)	Prize Value	
Wellington School’s Science Fair		Michael Lemon, Holly Bamber	\$350	
Beanland-Thornley student prize night		Emma Watson	\$100	
BRANCH PUBLICATIONS				
N/A				
ADDITIONAL BRANCH COMMENTS				
<p>The focus of the talk schedule this year was the international drilling work being undertaken onland (Alpine Fault) and offshore (IODP), led by NZ researchers – thanks to Joe Prebble who was the co-ordinator of all the excellent talks we had in 2018-19.</p> <p>A plan at the start of the year was to hold an annual fieldtrip, following up on the highly successful one to Hurupi Stream (fossils) last year, but commitments of key committee members meant this did not happen as planned.</p> <p>Thanks to Huw Horgan (previous branch chair, talk organiser), Christian Timm and Katie Collins who were previously on the Wellington branch committee.</p>				

BRANCH ACCOUNTS	
Wellington Branch, Geological Society	
Financial Summary 1/4/18 to 31/3/19	
Liz Kennedy	
Financial position at 1/4/18	NZ\$
Bank Balance	1771.46
Liability from previous year	0.00
Petty cash	77.20
Assets total at start of year	1848.66
Financial position at 31/3/19	
Bank Balance	1322.71
Liability carried forward	0.00
Petty cash - brought forward	77.20
Petty cash - earnt	0.00
Assets total at end of year*	1399.91
Net profit	-448.75
Made up of:	
Revenue	
Petty cash collected	0.00
GSNZ Grant	0.00
Interest	1.25
Income total	1.25

Expenses	
Meeting costs - cheque	0.00
Meeting costs - petty cash	0.00
Stamp duty	0.00
Hochstetter speaker dinner	0.00
Student prizes	100.00
Science Fair	350.00
Expenditure total	450.00
Balance	-448.75

Wellington Branch, Geological Society**Financial Summary 1/4/17 to 31/3/18**

Liz Kennedy (Treasurer)

Financial position at 1/4/17	NZ\$
Bank Balance	1523.89
Liability from previous year	0.00
Petty cash	77.20
Assets total at start of year	1601.09

Financial position at 31/3/18	
Bank Balance	1771.46
Liability carried forward	0.00
Petty cash - brought forward	77.20
Petty cash - earned	0.00
Assets total at end of year*	1848.66
Net profit	247.57

Made up of:

Revenue

Petty cash collected	0.00
GSNZ Grant	696.00
Interest	1.57
Income total	697.57
Expenses	
Meeting costs - cheque	0.00
Meeting costs - petty cash	0.00
Stamp duty	0.00
Hochstetter speaker dinner	0.00
Student prizes	100.00
Science Fair	350.00
Expenditure total	450.00
Balance	247.57

Canterbury

Branch Name		Canterbury		
Branch Summary/ Description		The Canterbury Branch was established under the former 'Geological Society of NZ' in 1961 but had existed independently since 1955 as the Christchurch Colloquium of Geology; the Branch was centred around the Geology Department of Canterbury University, now the Department of Geological Sciences.		
Branch Committee for 2018-19				
Committee Members (please list names)		Catherine Reid, Alex Nichols, Darren Gravley		
Branch representative on National Committee		Catherine Reid/Alex Nichols		
No. of paid GSNZ members as at 31 March 2019		69		
BRANCH ACTIVITIES AND EVENTS				
Activity (seminar, field)	Description	Date Held	Members attended	Non- members attended

trip, lecture, etc)				
Hochstetter Lecture – Alan Cooper	The Pounamu Terrane: a new component in the assembly of Zealandia	23 rd May	~45	
Hochstetter supporting lecture – Alan Cooper	Carbonatites	24 th May	~25	
ADDITIONAL BRANCH COMMENTS				
18 th March the branch celebrated Hector Day with the national geo-bake competition, a coffee morning was held in the department for entrues. Unfortunately, this was impacted by the terrorist incident in Christchurch on 15 th March.				
BRANCH ACCOUNTS				
Opening bank balance: 1023.32 Reserve balance: 625.00 Operational funds: 398.00 Closing bank balance: 1023.32 Reserve balance: 625.00 Operational funds: 398.00 Grant was not applied for this year as no student prizes were awarded in the 2018 calendar year.				

Otago

Branch Name	Otago
Branch Summary/Description	The Otago Branch was established under the former 'Geological Society of NZ' in 1966 and is centred around the Geology Department at University of Otago. Branch membership is mainly drawn from the University of Otago, along with others from GNS Science, local industry and those not affiliated with any professional employer. Activities are sometimes run jointly with the Otago Institute (the local RSNZ branch).
Branch Committee for 2018-19	

Committee Members (please list names)	Nick Mortimer, Andrew Gorman, Daphne Lee, James Scott		
Branch representative on National Committee	James Scott		
No. of paid GSNZ members as at 31 March 2019	79		
BRANCH ACTIVITIES AND EVENTS			
Activity (seminar, field trip, lecture, etc)	Description	Date Held	Total attendance
Hochstetter Lecture – Alan Cooper	The Pounamu Terrane: a new component in the assembly of Zealandia	9 May 2019	70
Hector Day fieldtrip and BBQ	Geobake contest judging and eating. One hour fieldtrip of Otago University building stones, followed by a BBQ and 'loud bang' vesiculation experiment.	15 Mar 2019	70
BRANCH PRIZES			
Name of Prize	Winner(s)	Prize Value	
2019 Aurora Energy Otago Science & Technology Fair 2019	1 st Emily White. Climate change in Tokelau	\$50	
	2 nd John Mengel. Structures that can take the shake	\$25	
	3 rd Sophie Sun. Our shaky... not just beginnings	\$0	
BRANCH PUBLICATIONS			
None			
ADDITIONAL BRANCH COMMENTS			

Branch organisation is informal and the level of activities is low. As has been the case for many years, the local appetite for scientific talks is satisfied by the fortnightly 1pm talks in the University of Otago Geology Department. The more occasional 5pm slots sometimes are badged as Geoscience Society talks; the Hochstetter Lecture and President's Lecture always are. We take evening speakers out for drinks and dinner afterwards. For the first time in many years the branch celebrated Hector Day (see above) and this will certainly encourage us to try and do more.

BRANCH ACCOUNTS

Balance sheet 1 Apr 2018-31 Mar 2019

	Cheque	Savings	Total
1 Apr 2018 Opening balance	737.52	1097.40	\$1834.92
28 Jun 2018 Aurora Otago Science Fair	-75.00		
Interest	0.68	0.56	1.24
Tax deducted	-0.23	-0.20	-0.43
31 Mar 2019 Closing balance	662.97	1097.76	\$1760.73

Note: \$200 for 2019 Hector Day expenses paid on 9 Apr 2019 so not in 2018-19 FY.

Other Centres

Official GSNZ events (i.e. President's Lecture, Hochstetter Lecture) are often held in Nelson, Napier and Masterton; these events are usually run by local branches of the RSNZ.

Activity	Brief description	Date	Number attended
Seminar (Masterton)	Hochstetter Lecture - The Pounamu Terrane: a new component in the assembly of Zealandia (Alan Cooper)	24/09/2018	
Seminar (Napier)	Hochstetter Lecture - The Pounamu Terrane: a new component in the assembly of Zealandia (Alan Cooper)	17/09/2018	
Seminar (Nelson)	Hochstetter Lecture - The Pounamu Terrane: a new component in the assembly of Zealandia (Alan Cooper)	21/05/2018	

Sub committees

Fossil Record File

The New Zealand Fossil Record File (FRF) is a register of almost every important fossil locality in the country, and many beyond. The original paper-based data file, established in the 1940s, still exists but for most practical purposes has been superseded by an electronic, on-line database affectionately known as FRED (the Fossil Record Electronic Database, available at fred.org.nz).

Access to FRED is free to any member of the geoscience community, but user registration and logging in is required to see detailed information or to submit new data.

Day-to-day management and operation of FRED is provided by GNS Science, and the vitally important curatorial duties – chiefly quality assurance and approval of new data – are carried out by volunteer curators who are based in several New Zealand universities and at GNS Science. Without these people we could not operate the FRF effectively, and the geoscience community is indebted to James Crampton, Erica Crouch, Ewan Fordyce, Chris Grimshaw, Mike Hannah, Chris Hollis, Neville Hudson, Liz Kennedy, Belinda Lyttle, Dallas Mildenhall, Hugh Morgans, Ian Raine, Claire Shepherd, and Marianna Terezow.

A meeting of the FRF Subcommittee was held during the 2018 GSNZ annual meeting held in Napier. A good number of interested GSNZ members were present, including several FRF curators, and a lively discussion ensued. An excellent suggestion, from Mark Rattenbury, was to develop a short paper describing FRF/FRED, so that paleontologists wishing to acknowledge the use of FRF data in their research can simply cite the paper. Work on this suggestion has already begun, and anyone wishing to contribute ideas or their time is invited to contact Chris Clowes at GNS Science (c.clowes@gns.cri.nz).

Sadly, Hamish Campbell stepped down from the role of FRF subcommittee chairman, although he stays on as chair of the Paleontology Subcommittee, so we will not be without his experienced voice at our next meeting. Chris Clowes, the GNS Science Project Leader for FRED, was elected to replace him.

Maintenance and upgrading FRED over the past year has primarily focussed upon fixing some bugs in the “simple query”, correcting a systemic offset in the map renderings, and replacing the problematic “bulk upload” spreadsheets with new ones which will be easier to use and less prone to error. The first of these initiatives is in production already, the two latter are expected in June or July.

Over the past year, 1,165 new localities and 301 new paleontological analyses have been added to FRED, with 3,469 taxonomic occurrences recorded from these. All of the new additions are open-file, as are the majority of pre-existing records.

Geoheritage

GEOHERITAGE SUBCOMMITTEE 2018-2019

Bruce Hayward (Convenor, Auckland), Jill Kenny (Northland), Hugh Grenfell (Auckland), Fred Brook (Nelson), Alan Palmer (Manawatu), Karoly Nemeth (Manawatu), Hamish Campbell (Wellington), Mike Johnston (Nelson), Sam Hampton (Christchurch) and Daphne Lee (Dunedin).

During the year, the Subcommittee kept its usual watching brief for threats to, or management issues involving our country's important earth science sites. Among the issues demanding attention have been:

1. **Crater Hill.** The Environment Court decision came out against subdivision in April 2018. That decision was appealed by the owners to the High Court and heard in Nov 2018. The interim decision of the high court came out against the appellant's subdivision plans in March 2019 with calls for further submissions from the parties to be heard later in 2019. In the meantime the owner is preparing the highest part of the tuff ring, east of the SW Motorway for sale by tender – it too is designated part of the ONF. The battle for Crater Hill is far from over.
2. **Foulden Maar, Otago.** GSNZ sent a submission to the Overseas Investment Office considering sale of land required for a diatomite mine to open at Foulden Hills. That submission stated the international significance of the site and the request that if mining was allowed to occur that a full sequence through the deposit was kept for future generations of research. By the end of March it was clear this issue may soon explode into the public arena.
3. **Revised Waikato District Plan ONFs.** A submission was prepared and submitted asking for existing scheduled ONFs be retained and new ones added.
4. **Recognising ONFs.** Our subcommittee has become concerned that Outstanding Natural Features are not defined in the RMA or anywhere else and that they are being therefore transformed into small landscape features by many TLAs instead of the mechanism for protecting significant geological sites and landforms when the RMA was formulated. Because of this we prepared a document titled "Best practice guide: Outstanding Natural Features. What are they and how should they be identified. How their significance might be assessed and documented." This document has been peer-reviewed by the subcommittee and hopefully will be made publicly available on the GSNZ website and sent to all TLA planning depts this next year.
5. **Matukutureia explosion crater.** A decade ago, GSNZ wrote a letter in support of making the small secondary explosion crater and surrounding tuff ring arc an ONF. This was done as part of the Auckland Unitary Plan. In 2018 the owner has signaled his intention of applying for a plan change to remove much/all of this ONF off this feature and the surrounding buffer zone. Our convenor met with the owner's representatives on site and expressed the society's continued support for the ONF

over the crater, tuff ring arc and views linking it to possibly related craters in adjacent Puhinui Reserve. We await further action from the owner.

Some other geoheritage activity in New Zealand

1. **Geoparks in NZ.** Late in 2018, it was announced that Waitaki Whitestone Geopark had been given the green light by UNESCO NZ to formally apply to World Heritage Paris, to be assessed for Global Geopark status. At the present time, that application is being upgraded in line with overseas' review.
2. **Karaka Volcano.** When the owner of the landfill proposal heard that it was in a newly recognised volcano, and that that volcano reached ONF status, he immediately withdrew his application and is now working to find a way for it to become a public park. He funded some shallow coring in the volcano's crater by Waikato University to determine its possible age.

Geopreservation Inventory - www.geomarine.org.nz/NZGI/

Our web site host resolved some of the problems we have been experiencing and some updating and additions to the inventory have been made during the year, we are still waiting for resolution to the photo library aspects. Sites added include: Auckland: Kaitoke Last Interglacial sand dune terrace and beach, Gt Barrier; Karaka Volcano; Te Ahumata silicified plateau, Gt Barrier; Whangapoua tsunami deposit, Great Barrier; Canterbury: Napenape Zoophycos trace fossils; Wall of Waiau; Leader River landslide; Northland: Bull Pt concretions; Manginangina basalt volcano centre; Pungaere limestone shafts and cave; Ruakaka dune lake; Tokerau Beach pillow lava, argillite and dikes; Southland: Lake Henry kettle lake, Te Anau; Mt Titiroa sculpted granite tors; Supply Bay unconformity; The Monument, Lake Manapouri; Waikato: Aranui Cave; Awaroa rocky peaks and karst; Deception Cave; Double Falls, Tawarau R.; Eight Mile Junction ignimbrite bluffs; Gribbon Rd bluffs; Herlihy bluffs thin-bedded turbidites; Kairimu cave system; Lake Koraha and Maturatahi; Lake Rotokawau; Lake Rotokotuku; Mangapu Gorge and blind valley; Lower Mangaotaki Gorge; Mangaokewa Valley sculpted ignimbrite; Mangaokewa ignimbrite castle hill; Mangaorongo Gorge and natural bridges; Marakopa River natural tunnel and Te Ana Kapiti Cave; Mohakatino karst; Mokau Estuary; Old Mountain Rd karst; Pakeho polygonal karst; Paparahia Cave; Piripiri Public Cave; Puketutu ignimbrite amphitheatre and waterfall; Pureora buried forest; Reserve Cave; South Awakino bluffs and waterfall; Taumatotara karst and dolines; Tawarau karst; Tawarau Falls; Te Kauri bluffs and caves; Ten Acre Tomo; Torehina karst; Upper Mangaotaki Gorge bluffs; Waikaretu karst and Nikau Cave; Waikawau River meandering estuary; Waipapa Rd cave system; Waitanguru Falls; Wairere Falls cave and karst; Waitomo Forest karst; Waitoru karst lake; Wharepapa fluted ignimbrite bluffs; Waipa River exhumed fossil forest; Whenuapo karst. It is useable but still has some problems with the photo database and full data availability. If you want to find out about sites in the inventory and their mapped extent and data, go to: <http://services.main.net.nz/geopreservation>

If any member wants to join our subcommittee please email Bruce Hayward.

Geophysical Affairs

This committee arose after the amalgamation of the two Societies: The New Zealand Geophysical Society and the Geological Society of New Zealand. For the last year this subcommittee has met on an ad hoc basis to provide advice for the SAGE award.

Members who have expressed an interest in this Group: 150

Special Interest Groups (SIGs)

Friends of the Pleistocene

Convenor: P Almond

Friends of the Pleistocene was established during 1989-90, one of the original SIGs of the former Geological Society. There were no activities to report for this year.

Interested members: 81

Geoscience Education

Convenor: G Vallender

A Geological Education Group, then a subcommittee, was established in the former Geological Society in 1983. The Geological Education Subcommittee became a Special Interest Group in 1989, and then became the Earth Science Education Group in 1991 - jointly sponsored by GSNZ and the NZ Soil Science Society.

Interested members: 123

The Geo Ed SIG continues to exist and support ongoing projects such as the GNS *Geotrips* initiative and the Auckland University based seismometers for schools' project. These projects have gone from strength to strength and remain valuable resources for the teaching and learning of geoscience in our schools. The challenge is to advertise their existence and encourage and support their use in a classroom learning situation. The many issues of Geoeducation in our schools remain the same.

Issue 27 of the newsletter includes an update on publications in which the Geoscience Ed SIG has been involved in see:

<http://www.igeosci.org/teaching-resources/geoscience-text-books/>.

<http://www.igeosci.org/activities/international-geoscience-syllabus/>

A chapter contribution to the International Geoscience Education Organisation update on the global status of Geoscience education. This makes for sobering thought and is available here:

<https://www.dropbox.com/s/igkn5gqiqu6be3f/Earth%20Science%20Education%20Global%20Perspectives%202018%20E%20Book.pdf?dl=0> And here.

<http://www.igeosci.org/wp-content/uploads/2018/12/Earth-Science-Education-Global-Perspectives-2018-E-Book.pdf>

The challenges of engaging and informing GSNZ members on the status, needs and values of geoscience education remains, just as they were since the formation of the Geoed SIG in 1984.

Historical Studies

Convenor: S Nathan

The Reminiscences Subcommittee was established in the former Geological Society in 1979, and then became a Special Interest Group in 1989 - the Historical Studies Group. The late Alan Mason established the Newsletter of the Historical Studies Newsletter (subsequently renamed the Journal of the Historical Studies Group). The main activity of the group is to produce this Journal, recording the history of Geoscience in New Zealand. The Historical Studies Group maintains contact with the International Commission for the History of the Geological Sciences (INHIGEO), and Mike Johnston is currently a Vice

President for the organisation. An annual subscription of \$15 is charged to cover the costs of producing a hard copy Journal.

Financial members: 68

The Journal of the Historical Studies Group continues its valuable function of recording information and reminiscences on the history of geoscience in New Zealand. Over the last year our editor, Rodney Grapes, has produced three issues:

JHSG 59 (June 2018)

Travels of the New Zealand Geological Survey headquarters (Graeme Stevens)

Heaphy and Hochstetter – first record of basalt in the Coromandel Volcanic Zone (David Skinner)

A few memories of Jack Marwick (1891-1978) (Graeme Stevens)

Lost subdivisions: an account of Geological Survey mapping projects that were never completed or only published after considerable delays (Simon Nathan)

A visit to Moscow during the Cold War (Graeme Stevens)

JHSG 60 (November 2018)

The emerald-uvarovite question: Docherty, Skey, Cox, Ulrich, Park (Rodney Grapes).

History, natural history and geology studies of the proposed Belmont Regional Park – an innovative approach to adult education. (Graeme Stevens)

Research on solifluxion phenomena in the western Hutt hills during the early 1950s (Graeme Stevens)

A personal tale of the Great Depression and the New Zealand Geological Survey (Graeme Stevens)

Three Alpine geologists recognised on the 'Geologists Terrace' at the Bastille overlooking Grenoble (John Rhodes)

Memories of a PhD at Victoria University in the 1960s (Gerrit Neef)

JHSG 61 (February 2019)

F.W. Hutton and his little book (Glenn Vallender)

Pyroclastic flow deposits, Hinuera valley, central North Island, and a note on usage of ignimbrite as a building material (David Lowe and Adrian Pittari)

Snakestones and devils toenails (Graeme Stevens)

A geological gallery from the 1950s (Simon Nathan)

Observations on the culture of the New Zealand Geological Survey, 1950s-1970s (Graeme Stevens)

George Grindley, 1925-2019 (Simon Nathan)

2018 was a major anniversary year, among other things marking the 150th anniversary of the founding of several major scientific organisations by James Hector. The Royal Society of New Zealand marked its anniversary with the publication of two special issues of the *Journal of the Royal Society of New Zealand* (vol 47, nos 1 & 2) containing papers on the history of science in New Zealand, including several relating to geoscience.

The 125th anniversary of women's suffrage was marked by the release of several new entries about prominent women in the online *Dictionary of New Zealand Biography*. It

includes an entry about Joan Wiffen – so far the only female geoscientist included in the DNZB.

Oil and Gas

The Oil and Gas Interest group is currently inactive and seeks a convenor.

Interested members: 120

Paleontology

Convenor H Campbell

A lunch-time meeting of the PSIG was held during the annual 2018 GSNZ conference in Napier (Friday 30 Nov) with about 20 people participating. Topics that we routinely visit are security of fossil collections, security of fossil localities, exciting new discoveries, techniques, developments and job prospects. This brief meeting was no exception. The situation at Foulton Maar was discussed, as were 'restructuring' at GNS Science and Te Papa. Mention was made of progress with the new natural history exhibition, Te Taiao, at Te Papa. This was formally opened, with much pomp and ceremony, in May 2019. The Giant Ammonite is back on display, as is the Iguanodon Tooth.

The 2018 Napier conference was outstanding in all respects with plenty of palaeontology on offer in one form or another. In particular, the programme included the international 7th Symposium for the IGCP 632 project: 'Continental Crises of the Jurassic'. This project is headed up by Professor Jingeng Sha (China) and Professor Vivi Vajda (Sweden), both of whom have strong connections with New Zealand. The symposium attracted a large number of earth scientists from overseas including a large cohort from China. A week-long post-conference field excursion exploring Jurassic sequences of the North Island (led by Neville Hudson and myself) attracted 16 Chinese, 3 Argentinians, 2 from Sweden and one from Russia.

Interested members: 96

SIG Activities for 2018-2019:

A lunchtime meeting was held at on Friday 30th November at Geosciences 2018 conference in Auckland where the security of fossil collections, security of fossil localities, the black market in fossils, exciting new discoveries, techniques, developments and job prospects topics were discussed.

Sedimentology

Convenor M Lawrence

The aim of the Sedimentology Special Interest Group (SSIG) is to promote communication and support among sedimentologists and provide a forum for discussion of aspects of sedimentology, stratigraphy, and sedimentary geology in New Zealand. It is open to both active researchers and those just interested in the field. The NZ Sedimentology Group is linked to its Australian equivalent, the ANZ Sedimentology. The sedimentology group has been largely inactive this year although is discussing whether NZ could potentially host the 2026 International Sedimentological Congress.

Interested members: 158

Geochemistry

Convenor James Scott

The New Zealand Geochemical Group was established in 1965 and then incorporated the NZ Mineralogical Society in 2003 to form NZGeMS. NZGeMS joined the GSNZ in 2012 as a Special Interest Group. GSIG was less active in the 2018-19 financial year due to the convener being on sabbatical for half a year and nobody able to take over in his absence. One newsletter was produced. A conference session at Geosciences 2018 focused on Geochemistry, with special interest group support funding used to provide registration for an invited speaker to discuss Martian meteorites.

Interested members: 128

LAVA NZ (Volcanology)

Convenor A Pittari

A Volcanic Studies Group was established during 1989-90, one of the original SIGs of the former Geological Society. However, this group became disestablished during the 1990s. A new Volcanology SIG - LAVA NZ - was re-established in 2014 and is linked to the equivalent Specialist Group of the Geological Society of Australia, the Learned Australasian Volcanologists Association (LAVA).

Interested members: 190

SIG Activities for 2018-2019:

5th Annual meeting: A lunch-time meeting was held at the Geosciences 2018 conference, Napier on 28/11/2018

Promotion of Geosciences 2018. LAVA NZ promoted the volcanology session and volcanic-related field trips of the 2018 Annual GSNZ conference, Napier, through its newsletter, LAVA News

SIG Publications for 2018 - 2019

One issue of LAVA News were produced and emailed to members during the year: LAVA News vol. 32(September 7, 2018)

Annual Conference

GEOSCIENCES 2018 CONFERENCE

The Geoscience 2018 conference was a great success and the first 'Sell Out'



Abridged Convenors Report: Joe Prebble (j.prebble@gns.cri.nz)

SUMMARY STATISTICS

- 340 delegates attended
- 124 delegates on 5 field trips
- 6 plenary speakers and PM Chief Science Advisor invited guest
- 15 thematic sessions
- Four concurrent talk streams, 172 oral presenters
- Two dedicated poster sessions, 126 posters
- \$53,000 received from 13 sponsors
- Public talk on Hikurangi Margin hazards advertised by East Coast LAB, >400 people attended
- 201 dinner tickets sold, photo competition held for first time

ORGANISORS

Conference Convenor

Joe Prebble (GNS Science)

Committee

Rose Turnbull Dinner, social programme (GNS Science)

Christian Timm Plenary speakers, themes (GNS Science)

Sarah Milich Logo, communications, photo competition (GNS Science)

Cécile Massiot Field trips (GNS Science)
 Jenni Hopkins Field trips, student helpers (VUW)
 Helen Bostock Special guest liaison, student judging (NIWA)
 Matt Sagar Abstract Volume, Field Trip Guides (GNS Science)

DATES AND VENUE

17–30 November 2018. Icebreaker Tuesday night, Science sessions Wednesday–Friday. Napier Convention Centre.

REGISTRATION

Conference registrations were managed by Absolutely Organised and processed through the Society's Clad Online software. This included registration for social events and field trips, collection of special requirements and diet information, application for student travel grants and prizes and the submission of abstracts.

FEES

	Earlybird	Late
Full member	\$350	\$400
Retired member	\$250	\$300
Student member	\$150	\$200
Non-member	\$450	\$500

RESISTRANTS

	Earlybird	Late
Full member	106	24
Non-member	51	14
Retired member	13	1
Student member	90	16
Sponsors/other	20	
Total	280	55

SPONSORS AND EXHIBITORS

Organisation	Status	Value	Activities
GNS Science	Gold	\$15,000	Exhibitor
NIWA	Silver	\$6,000	Exhibitor, poster sponsor
EQC	Silver	\$5,000	
ANZIC	Silver	\$5,000	Exhibitor, recognition in programme
Webster Drilling		\$5,000	Icebreaker sponsor Plus extra bar tab at event.
Van Walt	Bronze	\$3,000	Exhibitor
Resilience NSC	Bronze	\$3,000	Banner
Taylor & Francis/NZJGG			
	Bronze	\$3,000	Exhibitor, student prize, talk to delegates
Antarctica NZ	Bronze	\$2,000	Antarctic session
Beca		\$2,000	Coffee cart
Tourism NZ		\$1,500	Were going to do a presentation
REANNZ		\$1,250	Lanyard sponsor
Canterbury Scientific Instruments			
		\$1,250	Exhibitor (withdrew, refunded \$750)
		Total	\$53,000

FINANCES

Financial budgeting, invoicing, payments, supplier contracts, GST reporting and financial reconciliation were handled by Absolutely Organised Ltd. This year's budget was based on previous years' figures and results, with a goal of returning a break even or small surplus result. Although the budget was updated numerous times during the lead up to the conference, the net surplus of \$25k was more than expected. Such surpluses are used by the society to fund the Young Researcher Travel Grant and buffer conferences that end up making a loss.

SCIENTIFIC PROGRAMME

Session	Oral	Poster
A1: Learning from large NZ earthquakes	17	12
A2: Hikurangi Margin	15	16
A3: From faults to mantle	11	10
B1: TVZ-Kermadec Hydrothermal	12	9
B2: Volcanism + magmatism in Zealandia	23	22
B3: New Zealand geochemistry	8	11
C1: Sedimentary basins + processes	12	8
C2: Zealandia: Our land + natural history	10	5
C3: Antarctica + NZ climate + processes	13	13
C4: Sea level	5	3
D1: Geoparks + Geoheritage	9	2
D2: Resilience to hazards	5	4
D3: Jurassic Crises	24	2
D4: Sub-seafloor fluid flow	6	2
D5: Geoscience Data for Everyone	6	6
Total	176	125

PUBLIC LECTURE

A public lecture for Geosciences 2018 was given by three Hikurangi Margin researchers. The lecture was well attended with over 400 people and resulting in standing room only at the venue.

ADDITIONAL MEETINGS

- Twelve lunchtime meetings were held.
- Two pre-conference one-day workshops were held, on Scientific Drilling and Science Communication, at the request of the workshop convenors.
- The Geoscience Society of New Zealand Annual General Meeting was held before afternoon tea on the second day.
-

STUDENT PRIZES, AWARDS, AND VOLUNTEERS

- 75 student travel grants were awarded from a pool of \$6020 provided by the national committee of the Geoscience Society of New Zealand.

- Volunteers to judge student presenters were requested in communication to delegates. Approximately 12 judges were used.
- Student volunteers were asked to apply at registration. Four student volunteers were selected, and awarded a free registration (refunded after the conference). Tasks included helping at the registration desk during the Icebreaker event, assisting with uploading presentations, liaising with the AV technicians and being present in session rooms.

FIELD TRIPS

Six field trips were advertised, 5 went ahead. All field trips were budgeted to break even

FT1 Subduction to subduction: 100 million years on the eastern margin of Zealandia

Led by James Crampton & Ben Hines. 17 attendees

FT2 White Island. Led by Brad Scott & Cécile Massiot. 22 attendees

FT4 Hawke's Bay Monocline and forearc basin. Led by Peter Kamp. 17 attendees

FT5 Structural styles and deformation fabrics of an emergent accretionary ridge, Hikurangi margin, southern Hawke's Bay. Led by Jarg Pettinga & Carolyn Boulton. 16 attendees

FT6 Jurassic sequences of the North Island. Led by Hamish Campbell & Neville Hudson
22 attendees

Provisional Accounts: Geoscience General Accounts and balances for Geological Awards Trust as at 31 March 2019

Profit and Loss

Geoscience Society of New Zealand Incorporated
For the year ended 31 March 2019

General Accounts	2019	2018
Income		
Subscriptions	35,966	36,626
Historical Studies	321	2,110
Donations		
GeoEducation	0	416
Student Travel	17	5,791
Sundry Donations	10,502	0
Young Researcher Travel Donation	0	155
Total Donations	10,519	6,362
Conference Registrations	123,653	4,280
Interest Income	2,957	235
Sales	5,639	17,804
Sundry Income	0	700
Total Income	179,054	68,117
Operating Expenses		
Administration Costs	23,709	17,273
Audit	3,399	2,800
Bank Fees and Merchant Charges	290	1,208
Branch Grants		
Taranaki	257	182
Waikato	310	368
Wellington	0	696
Total Branch Grants	567	1,246
Committee Meetings	2,983	6,630
Conference Costs	106,420	2,998
Cost of Sales		
Opening Stock	194	35,496
Ballance Book Roadside Geology	0	2,295
CotM # 2 Ed.	(872)	0
Other	3,000	0
Closing Stock	TBA	(20,470)
Total Cost of Sales	2,323	17,321

General Expenses	0	856
Freight & Courier	393	0
Grants and Awards		
Kingma Award	0	250
Miscellaneous Awards	812	2,000
Student Travel - Conference	5,091	5,580
Young Researcher Travel Award	5,230	5,605
Total Grants and Awards	11,134	13,435
Hochstetter / Lecture Tours	2,606	2,232
Honorarium	0	3,500
Insurances	1,201	666
Levy RSNZ	0	1,141
Newsletter Costs	6,992	4,449
Office Expenses	0	2,938
HSG Newsletter Printing	1,031	0
Total Operating Expenses	163,046	78,693



12 April 2019

BANK AUDIT CERTIFICATE REPORT

Ground Floor, 7 ShowPlace
Addington
PO Box 203
Christchurch 8140
New Zealand
Telephone: +64-3-372 4928
Facsimile: +64-3-371 6166
Ref: 0020422654/54170

Dent & Heath
P O Box 30304
Lower Hutt 5040

Dear Sir/Madam

Geoscience Society of New Zealand

As at the close of balance on 31 March 2019 the records of the above customer held with Westpac were:

Accounts / facilities provided by Westpac New Zealand Limited (WNZL)

SECTION 1**1(A) BALANCE(S) IN ALL CURRENT, DEPOSIT, SAVINGS AND OTHER ACCOUNTS (excluding Loans - refer Section 2) AND INTEREST ACCRUED (Refer Section 1(D) for Set-Off Arrangements):**

Account number	Int. rate %	Balance	Dr. Cr.	Overdraft limit	Accrued interest (incl of withholding tax)
<u>Geoscience Society of New Zealand</u>					
03-0531-0172506-00	-	Nil	-	-	Nil
03-0531-0172506-90	-	Nil	-	-	Nil
03-0531-0250965-00	0.1000 Cr	\$31,209.50	Cr	-	\$0.17 Cr
03-0531-0250965-90	0.1000 Cr	\$201,080.48	Cr	-	\$1.10 Cr
<u>The Geological Awards Trust</u>					
03-0531-0760789-00	0.1000 Cr	\$8,400.42	Cr	-	\$0.05 Cr
03-0531-0760789-81/0005	3.4000 Cr	\$191,545.36	Cr	-	\$2,176.79 Cr
03-0531-0760789-81/0006	3.4000 Cr	\$183,871.73	Cr	-	\$2,089.99 Cr
03-0531-0760789-81/0007	3.4000 Cr	\$176,338.76	Cr	-	\$2,003.98 Cr
03-0531-0760789-81/0008	3.4000 Cr	\$31,195.40	Cr	-	\$354.52 Cr
03-0531-0760789-90	0.1000 Cr	\$40,107.44	Cr	-	\$0.22 Cr

Note: Where the debit balance exceeds the arranged overdraft limit, the debit interest rate reported above applies only to the amount exceeding the overdraft limit. Further details will be provided on request.

Note: Multiple Deposit Scheme - where multiple interest rates apply only the highest individual rate is displayed and may not apply to the entire MDS balance.

1(B) RESTRICTIONS ON WITHDRAWALS RELATING TO ACCOUNTS IN 1(A):

Account number	Any restrictions on withdrawal?
Nil	

Note: Details of any restrictions will be provided on request.

1(C) ACCOUNTS CLOSED DURING THE YEAR: