

THE NEW ZEALAND SOCIETY FOR
EARTHQUAKE ENGINEERING INC

PERFORMANCE REPORT
30 SEPTEMBER 2022

THE NEW ZEALAND SOCIETY FOR EARTHQUAKE ENGINEERING INC

TABLE OF CONTENTS

Non-Financial Information

Directory	3
Entity Information	4
Statement of Service Performance	5-7

Financial Information

Statement of Financial Performance	8
Statement of Financial Position	9
Statement of Cash Flows	10
Notes to the Performance Report	11-13
Independent Auditor's Report	14

THE NEW ZEALAND SOCIETY FOR EARTHQUAKE ENGINEERING INC

DIRECTORY

President	Geoff Rodgers
Immediate Past President	Helen Ferner
Management Committee	Julia Becker Pathmanathan Brabhaharan Patrick Cummuskey Bruce Curtain Tony Holden Greg MacRae Max Stephens Merrick Taylor Andrew Thompson SR Uma Rajesh Dhakal (Bulletin Editor) Lauren Mulcahy (Executive Officer)
Auditors	Grant Thornton New Zealand Audit Limited
Bankers	Westpac
Business Address	New Zealand Society for Earthquake Engineering P O Box 31122 Ilam Christchurch 8444 New Zealand

THE NEW ZEALAND SOCIETY FOR EARTHQUAKE ENGINEERING INC
ENTITY INFORMATION
FOR THE YEAR ENDED 30 SEPTEMBER 2022

The New Zealand Society for Earthquake Engineering Inc. (the Society) is an incorporated society registered under the Incorporated Societies Act 1908. It is also a registered charity.

The Society operates for the objective of advancing the science and the practice of earthquake engineering across all disciplines within New Zealand and overseas, through interchange of knowledge, ideas, results of research and practical experience.

Engineers, scientists, architects, insurers, contractors, and all those who have an interest in earthquakes and their effects are eligible for membership. The membership year is 1 October to 30 September.

Admission to membership of the Society is subject to the approval of the Management Committee. Annual membership fees include a subscription to the Society's quarterly bulletin.

The Society's main sources of income are member subscriptions, bulletin sponsorship, and annual conference sponsorship and registrations.

The Society is a collaborating technical group of the Engineering New Zealand (ENZ). ENZ provides accounting and administrative services to the Society for a fee.

THE NEW ZEALAND SOCIETY FOR EARTHQUAKE ENGINEERING INC
STATEMENT OF SERVICE PERFORMANCE
FOR THE YEAR ENDED 30 SEPTEMBER 2022

Outcome: The production and distribution of technical papers on aspects of earthquake engineering research and practice.

Outputs

- *Quarterly Bulletin*

The Society managed the peer-review, publication, printing and distribution of the quarterly Society bulletin for December 2021, and March, June, and September 2022. The Bulletin contains technical papers on aspects of earthquake engineering research and practice.

As well as the production and distribution of physical copies of the Bulletin to members and subscribers, the journal is also available open-access online to further disseminate findings from both research and practice papers. The four issues of the Bulletin can be accessed at:

Vol. 54 No. 4 (December 2021):

<https://www.bulletin.nzsee.org.nz/index.php/bnzsee/issue/view/214>

Vol. 55 No. 1 (March 2022):

<https://www.bulletin.nzsee.org.nz/index.php/bnzsee/issue/view/215>

Vol. 55 No. 2 (June 2022):

<https://www.bulletin.nzsee.org.nz/index.php/bnzsee/issue/view/216>

Vol. 55 No. 3 (September 2022):

<https://www.bulletin.nzsee.org.nz/index.php/bnzsee/issue/view/217>

- *Technical Guidelines/Advisories*

The Society also publishes technical advisories for engineers periodically as required. In August 2022, the Society joined with the Kindred Technical Societies of SESOC and the New Zealand Geotechnical Society (NZGS) to publish an advisory for engineers on Designing for Seismic Uncertainty. This advisory underscores the importance of the most fundamental aspects of good seismic design practice and how robust seismic design can provide a level of insensitivity to potential changes in seismic hazard. The advisory can be accessed at:

https://www.nzsee.org.nz/db/PUBS/Earthquake-Design-for-Uncertainty-Advisory_Rev1_August-2022-NZSEE-SESOC-NZGS.pdf

Immediately following the release of the new National Seismic Hazard Model (NSHM) by GNS, the same three Kindred Technical Societies again worked together to co-brand and publish an interim advisory, outlining the significance of the release of the NSHM for engineering practitioners. This Interim Guidance for Design Professionals on the 2022 National Seismic Hazard Model (NSHM) can be accessed at:

<https://www.nzsee.org.nz/guidance-for-design-professionals-on-the-2022-nshm/>

As part of the ongoing Resilient Building Project, several reports and a Policy Brief have been developed and published by NZSEE. These can be accessed at the links below.

Detailed Report on Focus Groups:

<https://www.nzsee.org.nz/wp-content/uploads/2022/07/Focus-Group-Report-final.pdf>

Detailed Report on Interviews:

<https://www.nzsee.org.nz/wp-content/uploads/2022/07/Interviews-Report-FINAL.pdf>

Policy Brief:

https://www.nzsee.org.nz/db/PUBS/Policy_Brief_Resilient_Buildings_FINAL110422.pdf

Full Report:

https://www.nzsee.org.nz/db/PUBS/RBP_SocietalExpectationsReport-FINAL-for-Release.pdf

Outcome: Improving technical knowledge through information sharing and learning.

Outputs

- *Technical Study Groups*

Currently the Society has projects of interest in various stages of development, some of which are being developed in conjunction with organisations such as Ministry of Business Innovation & Employment, Earthquake Commission, Structural Engineering Society New Zealand Inc, and New Zealand Geotechnical Society Inc. Current studies include the following:

- The Seismic Assessment of Existing Buildings.
- Low-Damage Seismic Design
- Resilient Buildings Project

- *Annual Conference*

The 2022 NZSEE Technical Conference was originally scheduled to be held at The Museum of New Zealand Te Papa Tongarewa in Wellington over 3 days from 27 to 29 April, 2022. However, the outbreak of the Omicron strain of Covid-19 and the subsequent move to the red traffic light setting forced the conference to be moved online. The online event was managed by Conference & Events as Professional Conference Organisers and attracted more than 700 registrants, which is significantly higher than the approximately 400 registrants we typically get for our in-person conferences. The conference was still run, albeit in a slightly reduced and compact schedule, over the same three days from April 27-29.

The conference theme was Te Aohurhuri, ngā piki me ngā heke, Designing for Uncertainty: Challenges and Opportunities. The Conference proceedings are being published online, and various scholarships and awards were conferred during the conference.

We had planned to hold a second edition of the Design Competition, following the inaugural event being held at the 2021 NZSEE conference. Competition rules were announced and teams invited to participate. However, the shift to the online format for the conference forced the Design Competition to be abandoned for 2022. NZSEE will now run this event at the 2023 conference at the University of Auckland from April 19-21, 2023.

- *Advocacy*

The Society advocates to Central and Local Government on earthquake engineering issues. The Society worked with SESOC, NZGS, and Engineering New Zealand to make submissions to the Ministry of Business, Innovation and Employment (MBIE) on issues including the continued funding of the New Zealand Geotechnical Database.

NZSEE continues to advocate on other issues, including proposals for the occupational regulation of engineers, the seismic risk working group work programme, and the monitoring and maintenance of the existing building assessment guidelines. The Society is also represented on a number of MBIE-led working groups, including:

- The Joint Committee for the Seismic Assessment of Existing Buildings (JCSAEB or “The Joint Committee”)
- The Code Advisory Panel (CAP), which was formerly known as the Building Code Technical Risk Advisory Group (BCTRAG) until September 2020.
- Engineering NZ Programme Challenge Group
- And various Standards NZ committees, including the P3404 Steel Structures committee

The Resilient Buildings Project, initiated by the Society in December 2019 which aims to rethink the philosophy of Earthquake Engineering based on learnings from the recent earthquakes to better align with societal expectations has continued with a further \$290k income from Toka Tū Ake EQC. Several key research papers and policy documents have been published in 2022, as noted earlier.

- *Oral History*

NZSEE partnered with the Earthquake Engineering Research Institute (EERI) in the United States to publish an Oral History on the life and career of Professor Nigel Priestley. This oral history was jointly led by former NZSEE President and NZSEE Life Member Richard Sharpe along with the late Nigel Priestley's daughter, Associate Professor Rebecca Priestley. The foreword was written by the NZSEE President at the time, Helen Ferner. The electronic copy of the oral history was distributed to all EERI and NZSEE members in November 2021. This initiative sought to honour the life and distinguished career of a former NZSEE President and Life Member, and to document the legacy of a New Zealand engineer who created an enormous impact on earthquake engineering within New Zealand and internationally. Richard Sharpe was honoured at the NZSEE Annual General Meeting in April 2022 for his efforts supporting this oral history, where he was conferred the NZSEE President's Award.

- *Seminar/Webinar Series*

A series of webinars, with some of these being run as hybrid, live-streamed, in-person seminars have been run, beginning in August 2022. The first event was a live seminar with Professor Juan Carlos de la Llera held at the University of Auckland on August 25th, 2022. This event was also live-streamed to members around the country. The in-person event also included a one-hour networking session at the University of Auckland, with canapes and drinks available. This event attracted nearly 400 online registrants and about 50 people in person.

The second webinar was a solely-online webinar on Seismic performance of Non-Structural elements in New Zealand, presented by Jan Stanway from WSP and Jitendra Bhatta from Beca. This event was held on Wednesday September 29th and attracted approximately 200 people online.

As part of our collaborative approach working with the New Zealand Geotechnical Society (NZGS), we advertised an NZGS-organised webinar on Geotechnical Engineering Practice Modules to all of our members in July 2022. NZSEE has recognised a need for information on this topic, but chose to partner with NZGS on this specific topic, rather than arrange our own competing event.

The webinar series has continued into the new financial year with four more webinars planned for the remainder of 2022.

Outcome: Utilise grants received to investigate the effects of earthquakes and disseminate the learnings back to scientists and engineers in New Zealand.

Outputs

- *Learning from Earthquake missions*

This Society monitors earthquakes around the world and from time to time sends groups of specialists to learn from particular earthquake events. During the current period, a few significant international earthquakes have occurred, including in Mexico. The effects of these events have been followed, but no actual in-person reconnaissance missions have been undertaken, in part due to international travel restrictions related to Covid-19 controls.

THE NEW ZEALAND SOCIETY FOR EARTHQUAKE ENGINEERING INC
STATEMENT OF FINANCIAL PERFORMANCE
FOR THE YEAR ENDED 30 SEPTEMBER 2022

Notes	2022 \$	2021 \$
Revenue		
Membership Subscriptions	112,532	111,074
Bulletin Revenue	50,982	51,633
Conference Income	129,220	415,313
Resilient Building Project Contract	293,269	147,101
Awards Sponsorship	16,000	20,000
Sundry	-	1,000
Interest Income	4,939	3,253
Total Revenue	606,942	749,374
Expenditure		
Bulletin Expenses	75,769	73,165
Audit Fees	9,325	4,934
Administration Expenses	75,973	64,305
Conference Expenses	111,485	256,110
Seminar Expenses	2,409	259
Resilient Building Project Consultancy	298,200	147,101
Awards	29,112	39,141
Other Expenses	410	867
Total Expenditure	602,683	585,882
Net Operating Surplus	4,259	163,493

The accompanying notes form part of and should be read in conjunction with this performance report.

THE NEW ZEALAND SOCIETY FOR EARTHQUAKE ENGINEERING INC
 STATEMENT OF FINANCIAL POSITION
 AS AT 30 SEPTEMBER 2022

	Notes	2022 \$	2021 \$
ASSETS			
Current Assets			
Bank Accounts & Cash	6	165,690	101,891
Investments	7	310,000	310,000
Receivables and Prepayments	8	109,660	175,778
Interest Receivable		2,920	843
Total Current Assets		588,270	588,512
Total Assets		588,270	588,512
LIABILITIES			
Current Liabilities			
Accounts Payable & Accrued Expenses		67,264	50,669
Building Resilient-Income in Advance		46,803	67,899
Total Current Liabilities		114,067	118,568
NET ASSETS		474,203	469,944
Represented by:			
Accumulated Funds		474,203	469,944
TOTAL EQUITY	9	474,203	469,944

For and on behalf of the Society

President
 Geoffrey Rodgers



Date: 2 February 2023

Executive Officer
 Lauren Mulcahy



Date: 2 February 2023

The accompanying notes form part of and should be read in conjunction with this performance report.

THE NEW ZEALAND SOCIETY FOR EARTHQUAKE ENGINEERING INC
STATEMENT OF CASH FLOWS
FOR THE YEAR ENDED 30 SEPTEMBER 2022

	Notes	2022 \$	2021 \$
Cash Flows from Operating Activities			
Cash was provided from:			
Membership Subscriptions		112,532	111,074
Bulletin, Conference & Seminar Revenue		348,570	292,564
Contract Services		185,923	147,102
Sundry Income		-	21,000
Interest		2,862	2,722
		<u>649,887</u>	<u>574,462</u>
Cash was disbursed to:			
Service Delivery Payments		(586,088)	(513,635)
Net Cash Flow from Operating Activities		<u>63,799</u>	<u>60,827</u>
Cash Flows to/from Investing Activities			
Movements in term investment		-	(70,000)
Net Increase/(Decrease) in Cash		<u>63,799</u>	<u>(9,173)</u>
Add opening cash brought forward		<u>101,891</u>	<u>111,064</u>
Closing cash carried forward		<u>165,690</u>	<u>101,891</u>
Represented by:			
Bank Accounts & Cash		<u>165,690</u>	<u>101,891</u>

The accompanying notes form part of and should be read in conjunction with this performance report.

THE NEW ZEALAND SOCIETY FOR EARTHQUAKE ENGINEERING INC
NOTES TO THE PERFORMANCE REPORT
FOR THE YEAR ENDED 30 SEPTEMBER 2022

1. STATEMENT OF ACCOUNTING POLICIES

a. Basis of Preparation

The New Zealand Society for Earthquake Engineering Inc. has elected to apply PBE SFR-A (NFP) Public Benefit Entity Simple Format Reporting – Accrual (Not-For-Profit) on the basis that it does not have public accountability and has total annual expenses of less than \$2,000,000 for the last two annual reporting periods.

All transactions are reported using the accrual basis of accounting.

The Performance Report is prepared under the assumption that the entity will continue to operate in the foreseeable future.

This performance report is presented in New Zealand dollars.

b. Revenue

Annual membership subscription fees are invoiced by ENZ in September for the period 1 October 21 to 30 September 22, and recognised when received. Bulletin revenue includes sponsorship from Earthquake Commission (EQC) and subscriptions to the quarterly publication are recorded as revenue evenly over the subscription period, 1 January to 31 December. Conference and seminar income includes sponsorship and registrations and are recorded as revenue when the event takes place. Interest income is recognised on an accruals basis.

(i) Resilient Building Project

Contract revenue is recognised when services are provided or by reference to the stage of completion at the reporting date. The stage of completion is assessed by an estimate of work performed in proportion to total contractually agreed services.

c. Goods & Services Tax (GST)

The Society is registered for GST. All amounts are recorded exclusive of GST, except for Receivables and Accounts Payable which are stated inclusive of GST.

d. Income Tax

New Zealand Society for Earthquake Engineering Inc. is a charitable organisation and is not subject to income tax.

e. Bank and Cash

Bank and Cash in the Statement of Cash Flows comprise cash balances and bank balances with original maturities of 90 days or less.

f. Receivables

Debtors are carried at estimated realisable value after providing against debts where collection is doubtful.

g. Changes in Accounting Policies

There have been no changes in accounting policies during the annual reporting period.

2. CONTINGENT LIABILITIES

The New Zealand Society for Earthquake Engineering Inc. had no contingent liabilities as at reporting date (2021: Nil).

3. COMMITMENTS

The New Zealand Society for Earthquake Engineering Inc. had no commitments as at reporting date (2021: Nil).

4. RELATED PARTY TRANSACTIONS

Engineering New Zealand provides accounting and administration services to The New Zealand Society for Earthquake Engineering Inc. for a fee of \$12,000 (2021: \$11,872). During the course of business operations, members of the Management Committee received fees of \$174,734 (2021: \$103,146).

5. SUBSEQUENT EVENTS

There were no events that occurred after reporting date that would have a material impact on the Performance Report (2021: Nil).

6. BANK ACCOUNTS & CASH

	2022 \$	2021 \$
Westpac Cheque Account	165,690	101,891
	<u>165,690</u>	<u>101,891</u>

7. INVESTMENTS

	2022 \$	2021 \$
Current Term Deposits	310,000	310,000
	<u>310,000</u>	<u>310,000</u>

8. RECEIVABLES & PREPAYMENTS

	2022 \$	2021 \$
Bulletin subscriptions and Contracted Services	86,710	25,995
Prepaid Expenses	11,700	-
Receivable from conference and Bulletin	11,250	149,783
	<u>109,660</u>	<u>175,778</u>

9. TOTAL EQUITY

	2022 \$	2021 \$
General Funds		
Opening Balance	429,944	266,451
Net Surplus	4,259	163,493
Transfer to LFE Fund		-
Closing Balance	434,203	429,944

LEARNING FROM EARTHQUAKES FUND

	2022 \$	2021 \$
		-
Opening Balance	40,000	40,000
Learning from Earthquakes Travel		-
Transfer from/(to) General Fund		-
Closing Balance	40,000	40,000
Total Equity	474,203	469,944

This Society monitors earthquakes around the world and from time to time sends groups of specialists to learn from particular earthquake events. There were no physical visits made as at the reporting date.

10. COVID-19

Whilst conditions were more stable during the current financial year, the COVID-19 pandemic is continuing, and we recognise that this brings uncertainty about economic conditions. Due to the inherent uncertainty of the duration and impact of the pandemic, it is not practicable to determine the full impact that the pandemic will have on the organisation. We are optimistic about the future and our assessment is that the impact of the pandemic is unlikely to be significant to the Society's operations going forward.