

New Zealand South Section



PART A - SECTION SUMMARY

A.1 Executive Summary – (Please follow the format given below)

- Section Executive Committee Member List
 - Chair: Andrew Lapthorn
 - Vice-Chair: Emma Lloyd
 - Treasurer: Jeremy Watson
 - Secretary: Neville Watson
 - Past Chair: Lance McCallumThe section officers were nominated and formally elected at the Section AGM.
- Section Highlights
 - Bidding for and being awarded to host the Region 10 Symposium
 - Speaker Series – “The Southern Star: Christchurch Navigating the Global Hydrogen Journey”
 - Image Vision Computing NZ (IVCNZ) conference 2024
- Major Events (International, National)
 - Sponsored two section committee members and two SB execs to attend SWYL in Japan
 - Sponsored Vice Chair Emma Lloyd to Attend the PES T&D Conference
- Major Chapter Activities
 - PES Chapter had a DL Julio Romero
- Major Student and Affinity Group Activities
 - Sponsored Matt Suter to attend the GYSS Conference
- Awards
 - R10 best membership growth: small section award
 - R10 Incentive Scheme

A.2 Financial Report – (Please follow the format given below)

Statement

Our sources of income were the Annual IEEE Rebate (\$5220.05 NZD) and account interest (\$1011.22 NZD + \$380.24 USD).

Spending was up significantly on previous years with several section events and travel sponsorship.

Accounts

Account	Debit	Credit	Balance
Westpac Bank Non-Profit	\$ 27,112.70 NZD	\$ 10,826.99 NZD	\$ 112.76 NZD
Westpac Bank Savings	\$ 5,500.00 NZD	\$ 904.28 NZD	\$ 32004.97 NZD
NZ South CB Account	\$ 2500.00 USD	\$ 380.24 USD	\$ 8,620.05 USD

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

- Total number of active members in the past 3 years.

Our Section currently has 255 members, up from 244 in 2023; the breakdown of the membership is given below, with 2023 numbers in parenthesis.

- Member 138 (124)
- Senior Member 31 (28)
- Student Member 37 (42)
- Life 19 (18)
- Other 30 (32)

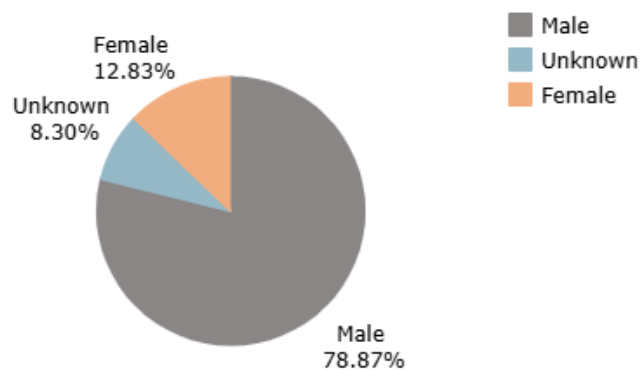


Figure 1: New Zealand South Section Membership by Gender

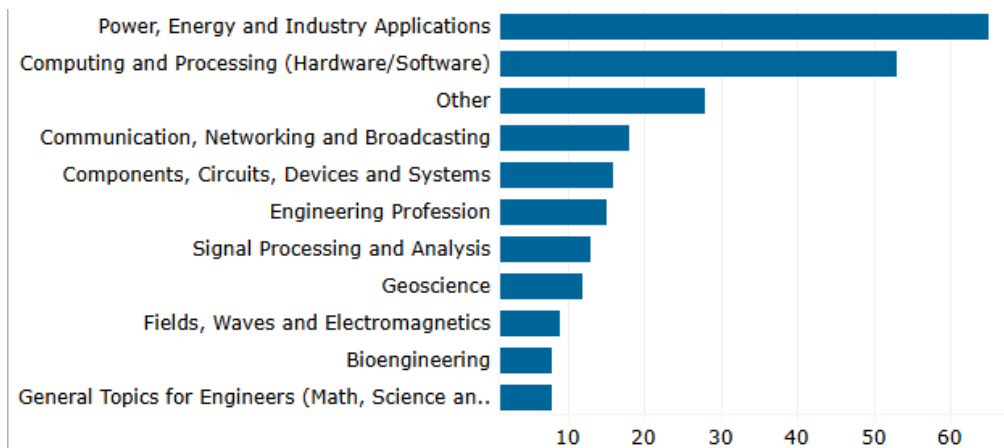


Figure 2: New Zealand South Section Count by Technology Focus Area

- Summary and evidence of work done to improve the value of membership, which leads to retention and growth of members

This year, we continued our networking and speaker series of events for the section membership, including a Panel session on Hydrogen.

For several years, our student branch has had two membership levels: IEEE Student members and university club members. This year, they had 239 signups to the club, but only 37 are IEEE members. The section plans to subsidise the membership fee by sponsoring the UC ball or t-shirts, for example, to encourage more club members to sign up for IEEE membership.

B.2 Chapter Activities

- Total number of Chapters in the Section
 - 10
- Number of Chapters formed in the current year
 - 0
- Number of active Chapters (Chapters that have reported the required number of meetings during the year)
 - 4

Summary of Chapter activities (Chapter wise with attachment table/information)

CH10236 Communications Chapter

2024 Multiethnic Youth STEM Networking	09 Sep 2024 09:00 AM	CH10236, R00301	Auckland, North Island	View
2024 AUT Open Day (24 August 2024)	24 Aug 2024 09:00 AM	CH10236, R00301	Auckland, North Island	View
2024 STEM Outreach @AUT	21 Feb 2024 10:00 AM	CH10236, R00301	Auckland, North Island	View

CH10485 Signal Processing & Information Theory Chapter

Optimization Algorithms for Signal Enhancement and Time Delay Estimation Efficiently Using Spatial Information	18 Nov 2024 11:00 AM	R00301, CH10485	Auckland, North Island	View
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CH10492 Power & Energy, Power Electronics Joint Chapter

Seminar on Grid Modernization and Smart Distribution Systems	07 Oct 2024 05:30 PM	CH10492	Christchurch, South Island	View
Seminar on Stability and Control of the Future Power Network	25 Jul 2024 05:30 PM	CH10492	Christchurch, South Island	View
Seminar on Smart Metering and Demand-side Integration	14 Jun 2024 05:30 PM	CH10492	Christchurch, South Island	View
Research into Electric Vehicle charging at the University of Canterbury	23 Apr 2024 05:30 PM	CH10492	Christchurch, South Island	View

CH11037 Geoscience and Remote Sensing

New Zealand SAR Mission Hackathon	05 Sep 2024 08:30 AM	CH11037	Christchurch, South Island	View
The Golden Age of Satellite Imaging Radar - Trends in SAR Instrument Development and Missions	15 Mar 2024 10:30 AM	CH11037	Christchurch, South Island	View

B.3 Professional and Continuing Education Activities

Nothing to report

B.4 Students Activities

- Total number of Student Branches in the Section
 - 1
- Number of Student Branches formed in the current year
 - 0
- Section level student activities (student congress, paper and other contests, awards etc)
 - ANZSCON
- Number of active Student Branches (Student Branches who have reported required number of meetings during the year)
 - 1

Summary of Student Branch activities (Student Branch wise with attachment table/information)

Title	Date	Host	Location	Reported On	Options
UC IEEE Ball 2024	23 Aug 2024 07:00 PM	STB06171	Christchurch, South Island	19 Jan 2025 UTC	View Manage
Women in Electrical Breakfast	16 May 2024 08:00 AM	STB06171	Christchurch, South Island	18 Jan 2025 UTC	View Manage
Power Evening	15 May 2024 05:00 PM	STB06171	Christchurch, South Island	19 Jan 2025 UTC	View Manage
Learn the Basics - Breadboarding Workshop	27 Feb 2024 11:00 AM	STB06171	Christchurch, South Island	19 Jan 2025 UTC	View Manage

B.5 Affinity Group Activities

- Young Professional (YP)
 - No Report
- Women In Engineering (WIE)
 - No Report
- Life Member (LM) LM00302

IEEE New Zealand Joint LMAG meeting No. 10	18 Nov 2024 04:00 PM	LM00302		07 Dec 2024 UTC	View Manage
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<u>IEEE New Zealand Joint LMAG meeting No. 10</u>	07 Oct 2024 04:00 PM	LM00302		10 Oct 2024 UTC	View Manage
<u>IEEE Joint New Zealand Life Members Affinity Group (LMAG) seminar on What is Resilience and Why is it so elusive in New Zealand?</u>	02 Oct 2024 04:00 PM	LM00302	Wellington, North Island	10 Oct 2024 UTC	View Manage
<u>New Zealand Central Section IEEE Day 2024</u>	02 Oct 2024 04:00 PM	R00302, LM00302, YP00302, WE00302, STB11831	Wellington, North Island	02 Oct 2024 UTC	View Manage
<u>IEEE New Zealand Joint LMAG Planning meeting No. 9</u>	02 Sep 2024 04:00 PM	LM00302		19 Sep 2024 UTC	View Manage
<u>IEEE New Zealand Joint LMAG Planning Meeting</u>	05 Aug 2024 04:00 PM	LM00302		19 Sep 2024 UTC	View Manage
<u>IEEE NZ Joint LMAG Meeting No. 7</u>	15 Jul 2024 04:00 PM	LM00302		15 Jul 2024 UTC	View Manage
<u>IEEE Joint NZ LMAG meeting</u>	29 Apr 2024 04:00 PM	LM00302		05 May 2024 UTC	View Manage

IEEE Joint NZ LMAG Meeting	25 Mar 2024 04:00 PM	LM00302		05 May 2024 UTC	View Manage
Joint NZ LMAG Admin Meeting	19 Feb 2024 05:00 PM	LM00302		22 Feb 2024 UTC	View Manage

B.6 Awards & Recognition Activities

- Award constituted by the Section
 - Travel Grant – Emma Lloyd – Attend IEEE PES Transmission and Distribution Conference LA
 - Travel Grant - Emma Lloyd (Section Vice Chair), Kristen Ong (, Tressa Glubb (SB Chair), Gemma Avery (SB Vice Chair) – Attend SWYL Congress Japan
 - Travel Grant - Matt Suter - Attend the GYSS Conference
- Please list all Awards and Recognitions received by the Section and members in the Section from R 10 and IEEE HQ during the year
 - R10 best membership growth: small section award
 - R10 Incentive Scheme

B.7 Communication Activities (Newsletter, Home Page, E-mail etc.)

- Newsletter (name and number of issues in the year)
 - No Newsletter
- Home Page of the Section (give the URL and how often it is updated)
 - The website is a work in progress. We hope to have this up and running properly this year.
- Other means of contacts with Section members including social media
 - **We have an Eventbrite page and a LinkedIn**

B.8 Industry Relations

- Membership growth and retention
- Activities for/with industrial members

B.9 Humanitarian Technology Activities

- Humanitarian Technology-related activities are supported by the section, including collaboration with other OUs.
- SIGHT Activities

B.10 Community Activities

- IEEE Social activities (Family day, IEEE day, Engineers Week)”

PART C - OTHERS

C.1 Special Events

- Please briefly describe the importance of special events and the outcomes achieved
 - The main event held by the section in 2024 was the continuation of our Networking and speaker series. This year the event was
“The Southern Star: Christchurch Navigating the Global Hydrogen Journey”
<https://events.vtools.ieee.org/m/438347>

This was a well-run and attended event and allowed members to interact in professional setting.

- Funding secured from the IEEE and external sources, including sponsorships
 - Nothing to report

C.2 Relationship with National and International Societies and Non-Government Organizations (NGO)

- Nothing to report

C3. Collaboration with other IEEE Sections

- Support extended to neighbouring Sections
 - We work closely with our neighbouring sections, assisting in joint activities like conferences and technical events as outlined be the many joint activities reported.
- Joint activities with any other Section
 - Our members assisted NZN with their recent conferences.

PART D - GOALS AND PLANS

D.1 Continuation of project/activity in progress and their implementation plans

The major focus for the section in 2025 is to successfully run the Region 10 Symposium. We are currently running weekly planning meetings, and things are progressing well at this stage.

D.2 Goals and Future Plans

Continue our networking events and secure more and larger conferences.

D.3 Any innovative ideas to make IEEE more creative and value-added for sustaining the membership retention and recruitment goals.

We plan to increase our student membership this year by subsidising social events held by the student branch for IEEE members.

D.4 Business Plan for Sustainable Growth and Financial Stability.

We will submit our reporting obligations on time for the section rebate, as well as look for some profit from the two conferences being held by the section