

New Zealand South Section

(Please replace above heading with your Section name)

PART A - SECTION SUMMARY

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

- Section Executive Committee Member List
 - Chair: Andrew Laphorn
 - 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
 -
- Major Events (International, National)
 -
- Major Chapter Activities
 -
- Major Student and Affinity Group Activities
 -
- 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 (\$4965.40 NZD), R10 Incentive Scheme (\$2500 USD), R10 best membership growth small section award (\$500 USD), and account interest (\$1211.08NZD + 319.14 USD).

Spending was up on previous years with a number of section-led events. However, thanks to the awards, the section finances grew by \$1845.34 NZD

Accounts

| Account | Debit | Credit | Balance |
|-------------------------|----------------|----------------|-----------------|
| Westpac Bank Non-Profit | \$ 9746.91 NZD | \$ 5296.87 NZD | \$ 16398.46 NZD |
| Westpac Bank Savings | \$ 0.00 | \$ 879.61 NZD | \$ 35681.71 NZD |
| NZ South CB Account | \$ 0.00 | \$ 3319.14 USD | \$ 10688.11 USD |

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

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

Our Section currently has 244 members.

- Member 124
- Senior Member 28
- Student Member 42
- Life 18
- Other 32

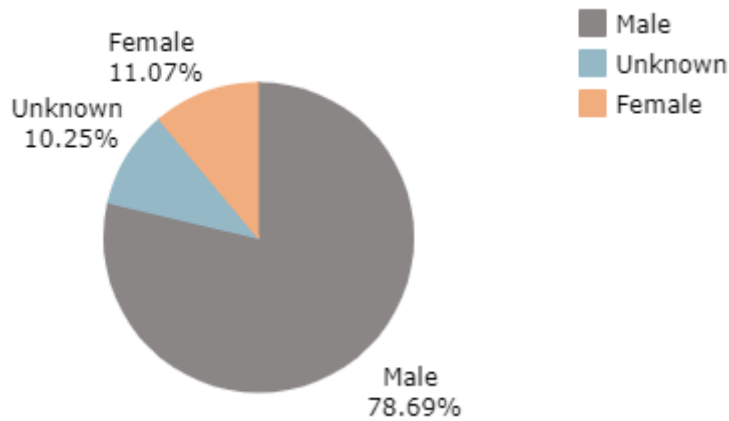


Figure 1: New Zealand South Section Membership by Gender

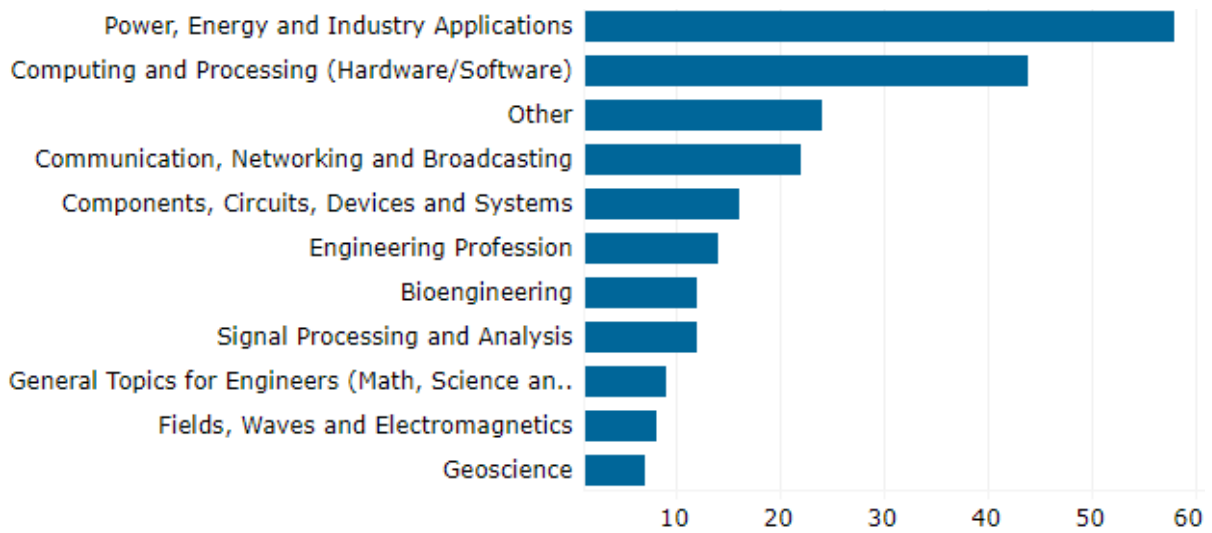


Figure 2: New Zealand South Section Count by Technology Focus Area

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

This year, we began hosting a networking and speaker series of events for the section membership, including a Panel session on AI. This has proven to be very successful. We also have more events planned for 2024.

B.2 Chapter Activities

- Total number of Chapters in the Section
 - 10
- Number of Chapters formed in the current year
 - 1 Geoscience and Remote Sensing Society Chapter
- Number of active Chapters (Chapters who have reported required number of meetings during the year)
 - 4
- Summary of Chapter activities (Chapter wise with attachment table/information)

CH10236 Communications Chapter

- Pre-U STEM Program - STEM Outreach @AUT Orientation
- Pre-U STEM Program - 2023 STEM Outreach @AUT Live
- Pre-U STEM Program - Refugee and Migrant careers event

- Pre-U STEM Program - 2023 MOTAT STEM Fair
- Pre-U STEM Program - 2023 Y12 AUT Campus Experience Day
- Pre-U STEM Program - Digital Literacy and Online Safety

CH10485 Signal Processing & Information Theory Chapter

- Professional - Concepts and Methods of Blind Source Separation for Speech
- Professional - A sophisticated Method of Blind Source Separation for Speech and Music
- Professional - Entropy-based Detection and Classification of Brydes Whale Vocalizations: An Approach for Understanding and Conserving an Endangered Species
- Professional - Drone Audition: Characterisation, Localization, Enhancement of the Soundfield from Drone-embedded Microphone Array

CH10492 Power & Energy, Power Electronics Joint Chapter

- Technical - Transformer Testing Workshop
- Technical - Corona and its Implications on the Management of MV and HV Insulators and Infrastructure

CH11037 Geoscience and Remote Sensing

- Technical - Instrumentation and Future Technology Remote Sensing Summer School
- Technical - Sensing Water: The Rongowai airborne remote sensing mission for GNSS-reflectometry across New Zealand
- Administrative - New Zealand GRSS Joint Chapter Annual General Meeting

B.3 Professional and Continuing Education Activities

Summary of continuing Educational activities including conferences, technical activities, training courses, and distinguished lecture programs with attachment table / information

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)
 - Nothing to report
- 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)

| | |
|--------------|---|
| Term1 | Clubs Day |
| | Connetics BBQ |
| | Learn the Basics - Breadboarding Workshop |
| | First Pro/Second Year Welcome BBQ |
| | Learn the Basics - Arduino Workshop |
| | Ergo Coffee Time |
| | Engineering Clubs Social Quiz Night |
| Term2 | Cohort Drinks and chips at the Foundry |
| | Women in Electrical Breakfast |
| | Industry Night with TronSoc & UC BioMed |
| Term3 | PowerCo CV/Interview Workshop 1 |
| | Mock Interviews |
| | Learn the Basics - Git Workshop |
| | ElectroNet Quiz Night |
| | Industry Night with TronSoc & UC BioMed 2 |
| | UC IEEE Electrical Ball |
| | First Aid Training |
| | EngineeringHer |
| Term4 | Welcome Back for Term 4 BBQ |
| | AGM |
| | Lunch & Learn with WSP |
| | Orion BBQ |
| | Club handover |

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B.5 Affinity Group Activities

- Young Professional (YP)
- Women In Engineering (WIE)
- Life Member (LM)

B.6 Awards & Recognition Activities

- Award constituted by the Section
 - No Awards
- 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 Incentive Scheme
 - R10 best membership growth small section award

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)
 - 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 eventbright page**

PART C - OTHERS

C.1 Special Events

- Please briefly describe the importance of special events and the outcomes achieved
- Funding secured from the IEEE and external sources including sponsorships

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

- Nature of relationship and details of any formal agreement signed
- Details of joint activities
- Benefit to IEEE members (for example discounts, access to technical information etc.)
- Benefit to Section (for example help in membership development, venue facilities, cost saving etc.)

C.3 Collaboration with other IEEE Sections

- Support extended to neighboring Sections
 - We work closely with our neighbouring sections assisting in joint activities like conferences and the like.
- 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

D.2 Goals and Future Plans

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

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