

New Zealand South Section Report

PART A - SECTION SUMMARY

A.1 Executive Summary

- Section Executive Committee Member List
 - Chair: Andrew Laphorn
 - Vice-Chair: Andrew Berry
 - Treasurer: Lance McCallum
 - Secretary: Logan Clarke
 - Past Chair: Lance McCallumThe section officers were nominated and formally elected at the Section AGM.
- Section Highlights
 - The Section hosted the bi-annual Australia and New Zealand Students and Young Professionals Congress (ANZSCON2019) at the University of Canterbury
 - Technical co-sponsor of IEEE International Instrumentation and Measurement Technology Conference (I2MTC)
- Major Events (International, National)
 - ANZSCON
 - R10 ExCom Meeting, Queenstown
 - IEEE I2MTC
- Major Chapter Activities
 - A number of DL technical seminars were held throughout the year.
- Major Student and Affinity Group Activities
 - Student Branch – Mock Interview Event
 - Student Branch – ANZSCON
 - YP - ANZSCON
- Awards
 - No Awards were awarded in 2019

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

Statement

Our two sources of income are the Annual IEEE Rebate (\$5,156.10), which has fallen from last year (\$5,464.78) due to poor chapter activity reporting and our fixed term deposit and other account interest (\$756.20).

Spending was up a great deal due to the ANZCON we hosted being poorly attended and running at a large loss of \$7,268.85. This represents more than one year of our rebates from IEEE Headquarters, leading to a total operational loss for the year of \$2330.75.

Continuing from last year, we have another one year fixed term deposit of \$26,532.21 at 2.6% p.a. This will return quarterly gross of \$170.10, or \$119.07 after tax. The fixed term ends on 11th November 2020 and will yield \$26,896.36 at maturity and compounds quarterly.

Accounts

Account	Debit	Credit	Balance
Westpac Bank Non-Profit	\$ 11,204.08	\$ 11,117.70	\$ 1,218.72
Westpac Bank Savings	\$ 3000.00	\$ 0.00	\$ 5,481.75
Westpac Term Investment	\$ 0.00	\$ 0.00	\$ 26,532.21

PART B - ORGANIZATIONAL ACTIVITIES

B.1 Membership Development Activities

- Total number of active members in the past 3 years.
 - Total number of Members 324
 - Members 153
 - Senior Member 27
 - Student Member 87
 - Other 57
- Summary and evidence of work done to improve the value of membership, which leads to retention and growth of members
 - Our membership is up over 10% from 2019 (288 members) which is mainly due to a strong growth on membership grade up from 132 last year.

B.2 Chapter Activities

- Total number of Chapters in the Section
 - 6
- Number of Chapters formed in the current year
 - 0
- Number of active Chapters (Chapters who have reported required number of meetings during the year)
 - 3
- Summary of Chapter activities (Chapter wise with attachment table/information)
 - CH10492 Power & Energy, Power Electronics
 - Technical seminar – Dr. Wallace Vosloo – High Voltage Insulation and Environmental Considerations
 - Technical seminar – Dr Teng Long- Unlock the full potential of Wide Band Gap devices in power conversion applications
 - CH10485 Signal Processing & Information Theory
 - Technical seminar – Prof Hideki Kawahara - Making speech tangible for a better understanding of human speech communication
 - CH10501 Instrumentation and Measurement Society
 - Technical seminar – Mario Baum - Innovations in Healthcare and Medical Technology driven by Miniaturization and Functionalization
 - Technical seminar - Vincenzo Piuri - Artificial intelligence for advanced biometric technologies
 - IEEE I2MTC – International Instrumentation and Measurement Technology Conference
 - Technical seminar - Vincenzo Piuri - Ambient intelligence: convergence of artificial intelligence, machine learning, biometrics, cloud-computing, and interne
 - Technical seminar - Dr. Octavian Adrian Postolache - Smart sensors and tailored environments for neuro-motor rehabilitation monitoring in internet of things era
 - CH10236 Communications
 - Technical seminar – Prof Hideki Kawahara – Digitizing Hospital logistics: A Danish experience
 - Technical seminar – Dr R Venkatesha Prasad – Murphy Loves Constructive Interference
 - Technical seminar – Dr R Venkatesha Prasad – Internet of Things, Approximate Services and Virtual Sensing

B.3 Professional and Continuing Education Activities

We successfully organized at the University of Canterbury ANZSCON is the Australia New Zealand Student and Young Professionals Congress. Being a unique event of its kind, it brings together the leadership from 10 sections across Australia and New Zealand, as well as two Regional Councils.

ANZSCON is an event where young engineering students and young professionals meet and engage to familiarize with trends in science and technology, discuss present and future engineering challenges, develop new skills and share technical, social and professional experiences.

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)
 - Student congress
- 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)
 - The student branch held a number of social events, a CV skills seminar, Mock interview event, and a number of industry tours.

B.5 Affinity Group Activities

- Young Professional (YP) – Participated in ANZSCON
- Women In Engineering (WIE) - NA
- Life Member (LM) - NA

B.6 Awards & Recognition Activities

- Award constituted by the Section
 - Nothing to report
- Please list all Awards and Recognitions received by the Section, and members in the Section, from R 10 and IEEE HQ during the year
 - Nothing to report

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

- Newsletter (name and number of issues in the year) - NA
- Home Page of the Section (give the URL and how often it is updated) –
 - <https://site.ieee.org/nzs/> last updated 2018
- Other means of contacts with Section members including social media- NA

B.8 Industry Relations

- Membership growth and retention
We have most members from universities, but we do have active members from industry coming to attend IEEE events. Growth and retention in industries are a bit difficult in NZ due to the small size.
- Activities for/with industrial members
Our IEEE seminars are often deliberately scheduled in late afternoons to make it easier for industrial members to attend, and we plan to have more speakers from industry

B.9 Humanitarian Technology Activities

- Nothing to report

B.10 Community Activities

- Nothing to report

PART C - OTHERS

C.1 Special Events

- None

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

We have an agreement with IPENZ, and we continued the practice of allowing members to attend seminars organized by the other party, including IET.

C3. Collaboration with other IEEE Sections

- Support extended to neighboring Sections
We have joint chapters with NZ South and Central Section, and have been helping each other in seminar organizations, particularly DLs, conferences sponsorships, etc.
- Joint activities with any other Section
We had joint activities, particular in organizing local and DL seminars.

C.4 Support extended to Sub-sections & Society Chapters within the Section

- Chapters are supported financially from the section for their activities

C.5 Best Practices of your Section (which you would like to share with other Sections for the benefits of members)

Strong support to the student branches and YP, it is rewarding for both the young professionals and the Section

C.6 Problems anticipated and suggestions for solutions, if any

PART D - GOALS AND PLANS

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

Need to develop a strategic plan for the section.

D.2 Goals and Future Plans

We have need to re-invigorate our committee as there is little participation from the membership in section activities.

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.