



THE NEW ZEALAND ELECTRONICS INSTITUTE

(Incorporated)

Charities Commission Registration Number 39965

3A Willis St

Torbay

AUCKLAND 0630

Email: secretary@nzelectronics.org.nz

Web site: <http://www.nzelectronics.org.nz/>

2022 Secretary's Report

General

The buzz words in industry today are Artificial Intelligence, Internet of Things and Data Science. If you dig below the hype, you will find electronics is a critical component in foundation of each. The stand-alone electronics discipline of the past is morphing into a joint venture with new partners delivering amazing products to solve today's problems from global warming to improved safety.

For example, a combination of data analysis with real-time video is proactively identifying when someone is contemplating jumping into the pit at rubbish transfer stations. Typical this is to recover a dropped cell phone or to grab an item they want. Machinery operators can then be alerted to stop preventing the possibility of harm to the recalcitrant person.

Another example is remote monitoring of weather indicators combined with video to identify forest fires. Early detection of fires allows them to be extinguished before they escalate into a major event. As a bonus the weather indicators can be shared to the public. As well as wind, rain and humidity, pollen counts for those suffering from asthma can be beneficial.

Personalisation is also enabled in the marketing world. Customers are targeted with relevant products at the time they are needed. Personalisation not only saves you being bombarded with irrelevant advertising but also reduces costs for provider.

Technically, these delivery partnerships are driving interoperability (think APIs) which, in turn, drives simplification. In the electronics industry, we need to bear these requirements in mind. The questions to answer are who we wish to partner with, how can we add value to the partnership and maintain profitability.

The electronics industry future is not doom and gloom, but it does require a new mindset. Are we up to the challenge?

The Institute continued its sponsorship program by awarding another two grants to promising electronics students. The two recipients of the 2022 \$500 Ross Muir Awards are pending (Auckland) and Peter Forknell (Christchurch).

The Institute extends its appreciation to the Spark Foundation for making the video conference facilities available free of charge.

My thanks to Malcolm Wheeler and Peter Over for their assistance and wisdom, throughout the year.

Financial

The Statement of Financial Position shows, once again, the Institute had an operating deficit. This was despite holding subscription revenue constant and a lift in interest received. Certainly not a recipe for our continued existence.

I see nothing on the horizon that will magical improve our position so I am seeking approval to increase subscriptions to \$25/year (\$5 increase). This will be the first increase in over ten years. If necessary, I will also divert the interest earned on our investments to the working account rather than compounding it.

Membership

	2020	2021	2022
Members as of 01 January	81	79	77
New	2	3	2
Gone No Address	-1	-1	-1
Resignations	-2	-3	-2
Deceased	-1	-1	-1
Members as 31 December	79	77	75

Comprising:

Life Fellow	2
Fellow	2
Senior Member	51
Member	8
Associate Member	12

Auckland	29
Waikato/BoP	5
Palmerston North	7
Wellington	8
Christchurch	14
Dunedin	8
Overseas	4

Website

The Institute's website is the principal way of communicating with the members. All electronically themed meetings I am advised of are posted along with articles of interest that cross my desk.

Members are always welcome to submit relevant items for uploading to the site for the benefit of the wider membership.