

**Annual Report  
for the 165<sup>th</sup> year**

**of the**

**ROYAL SOCIETY OF NZ  
WELLINGTON BRANCH  
INCORPORATED**

**Year ended 31<sup>st</sup> August,  
2016**



## **Report for the 165<sup>th</sup> year of**

### **ROYAL SOCIETY OF NEW ZEALAND WELLINGTON BRANCH INCORPORATED**

Founded July 1851 as the New Zealand Society

Reconstituted November 1867 and renamed the Wellington Philosophical Society

Incorporated in 1868 with the New Zealand Institute Act 1867

Renamed in 1938 as the Wellington Branch of the Royal Society of New Zealand

Incorporated in 1939 under the Incorporated Societies Act 1908 as the Wellington Branch of the Royal Society of New Zealand Incorporated

The Society changed its name in 1995 to Science Wellington Incorporated and then changed in 2001 to Royal Society of New Zealand Wellington Branch Incorporated

The Branch was registered in 2009 as a Charitable Entity with the Charities Commission (registration number CC42176)

The Branch is a Regional Constituent Organisation of the Royal Society Of New Zealand under the Royal Society of New Zealand Act 1997,

Section 14. It is a Committee under Sections 14(2) and 28(3)

P.O. Box 3085, Wellington 6011, New Zealand [www.wellington.rsnzbranch.org.nz](http://www.wellington.rsnzbranch.org.nz)

## **COUNCIL OFFICE BEARERS, AFFILIATES AND MEMBERS FOR 2015-16**

PRESIDENT	Brian Jones
VICE-PRESIDENTS	David Lillis Phil Lester
SECRETARY	Nicole Jones
TREASURER	Queenie Lin
FINANCIAL REVIEWER	Paul Jones
COUNCIL MEMBERS	Nancy Yopp Frank Andrews Wyn Beasley Trevor Drage Bradley Williams
BRANCHES REPRESENTATIVE FOR RSNZ	Brian Jones

## **PRESIDENT'S REPORT 2016**

The 2015 AGM was held at the Wellington Club and 22 members turned out in support of the Society. The AGM resulted in the election of myself as President, supported by an enthusiastic Council, mostly retained from last year. I am very grateful for the hard work put in by all members, but especially for the expertise of the Treasurer Queenie Lin and the very competent secretarial support provided by Nicole Jones. In February 2016 Bradley Williams resigned to take up a position in Australia. His contribution during his time on council was much appreciated.

In June 2016 the Council made a submission on the Incorporated Societies Bill. Changes proposed to the Incorporated Societies Act as well as anomalies in our Constitution that have become apparent through talks with the Royal Society of New Zealand mean that changes will be required, a task for next year.

An audit of the internet sites in 2014 had revealed that the Society had five websites, all of them out of date and for most we had no record of passwords or login details to effect any changes. Queenie sourced volunteer support to redesign a website and to link the old sites to the new one. She has also redesigned the Facebook page, and Nicole has been keeping the Facebook page up to date. We also have new email addresses as the old mail boxes were full and there was no way of emptying them. This work continued through 2016 but is still "a work in progress". At least now when people look for the Society the information is likely to be current. An ongoing project is to improve the appearance of the site.

### **Lectures and Branch Activities**

The Branch hosted 3 lectures in 2015, the annual Hudson lecture in July given by the Parliamentary Commissioner for the Environment Dr Jan Wright, The Hamilton lecture in August by Dr Valerie Soo and the Ten by Ten lecture in September by Profs James Renwick and Tim Naish. We also joined with engineering societies in Wellington and provided financial support for the Wellington Engineering Festival lecture in July.

### **Financial Situation**

Whilst the branch's reserves have continued to dwindle, the branch still has funds available but the challenge is to build up the financial base of the Society. The Council believe that increasing subscriptions is not an option since it will likely result in a further loss of members. One obvious avenue to explore is to use the charitable status of the Society – donations and bequests (but not memberships) are potentially tax deductible.

The Council did donate \$500 to the Glean report as requested at the AGM. It should be noted that future donations will very much depend on the financial status of the Society. We also continued to support the Wellington Science Fair through the provision of a \$1000 prize, as we have done in the past.

Unfortunately our elected financial reviewer (Alison Towers) was not able to audit the accounts due to ill health and Paul Jones stepped in to help instead. His assistance at short notice is much appreciated.

### **Membership**

Membership has risen for 2015, which is a great trend. However, because no subscription were sought in 2013 and a number of members have not responded to subscription renewal requests, there will inevitably be another significant loss of members next year as members of two years or more in arrears are struck off.

In 2014 the Council instituted a Student membership fee and a scholarship scheme, awarding four prizes of \$500 for students to present their work at a conference. Though the Scholarship was offered again this

year, there were no applicants. However the Student Membership fee has certainly attracted new members. Whether we can keep them interested is a challenge.

## **TREASURER'S REPORT**

For the year ended 31 August 2016

### **Overview**

A key aim of RSNZ Wellington Branch is to promote science through science lectures, networks, scholarships and media. The current council must balance the expectations of public and members against maintaining a prudent financial position.

### **Reporting Format**

Because the RSNZ Wellington Branch is a charitable trust, presentation of our Financial Statements has been updated to fit the new Tier 4 (cash basis) reporting standard for charities required by the External Reporting Board New Zealand. Now called a Performance Report, the end of year report contains both non-financial and financial information.

The key role of the annual account is to inform stakeholders, including both past and present members of the RSNZ Wellington Branch. We are really pleased with the new format that fulfils both the governance role of financial transparency and that of providing clear and easily understood information to all stakeholders and the general public.

### **Income**

Our income is slightly lower than last year due to a continual decrease in financial members and lack of alternative income streams. This will be the main task for the new council to consider for the coming year. It is great that we received a few donations from our emeritus and retired members. Thanks for their positive support.

### **Expense**

The total expense is slightly higher than last year but lower than our budget. We did not receive any scholarship applications and we did not hold a workshop this year, for which venue hire was budgeted. We spent small amount of budget to support the Glean Media and fund the prizes for Café Scientifique. We are holding a small amount payable to IET for the venue hired for the Engineering and Science Festival 2016 lecture.

### **In Summary**

Our financial position is still on the bottom line, but cash flow out weighs cash flow in. While we were focusing on networking in 2016, e.g. organisational identify and professional website to attract new members and enhance the membership subscription, the new council will need to focus on promotion in 2017. Finally, I would like to thank Paul Jones for help in this financial review.

Treasurer:  
Queenie Lin

## **ENTITY INFORMATION: For the year ended 31 August 2016**

### **Legal Name**

The Royal Society of New Zealand Wellington Branch Inc.

### **Type of Entity**

The Royal Society of New Zealand Wellington Branch Inc. is an incorporate society and charitable trust registered with the New Zealand Companies Office and the Charities Commission. The society operates under a Constitution and is governed by the requirements by the Incorporated Society Act 1908 and the Charitable Trusts Act 1957.

### **Date of Formation**

New Zealand Companies Office: 18 December 1939

Charities Commission: 30 June 2008

### **Registration Number**

New Zealand Companies Office Registration Number: 215762

Charities Commission registration number: CC42176

### **Purpose or Mission**

The objects of the Royal Society of New Zealand Wellington Branch Inc. are the promotion and advancement of science, technology and the humanities in the Wellington region.

### **Structure**

Non-affiliated

### **Main Sources of Cash and Resources**

From membership subscriptions, donations and interest.

### **Main Methods to Raise Funds**

Subscriptions, donations and bequests

### **Reliance on Volunteers and Donations**

The society relies entirely on volunteer time and expertise to complete its work.

### **Registered Office**

11 Turnbull Street, Thorndon, Wellington 6011

### **Postal Address**

PO Box 3085, WELLINGTON 6140

### **Website**

<http://wellingtonrsnz.org.nz>

### **Emails**

[President@wellingtonrsnz.org.nz](mailto:President@wellingtonrsnz.org.nz)

[Secretary@wellingtonrsnz.org.nz](mailto:Secretary@wellingtonrsnz.org.nz)

[Treasurer@wellingtonrsnz.org.nz](mailto:Treasurer@wellingtonrsnz.org.nz)

### **Facebook**

<https://www.facebook.com/RSNZWellington>

### **Twitter**

<https://twitter.com/RSNZWellington>

### **Council**

Brian Jones, President

Phil Lester, Vice President  
David Lillis, Vice President  
Queenie Lin, Treasurer  
Nicole Jones, Secretary  
Wyn Beasley  
Trevor Drage  
Frank Andrews  
Nancy Yopp

**Banker**

ANZ Bank, 24 Willis Street Branch, Wellington

**Financial Reviewer**

Paul Jones Email: [paul.jones@paradise.net.nz](mailto:paul.jones@paradise.net.nz)



## Statement of Receipts and Payments

	Note	Actual 2016	Budget 2016
<b>INCOME</b>			
		\$	\$
AGM Sponsors	6	540	540
Donation		113	-
Interest Income		533	600
Membership Sub Received	5	2,060	3,000
Returned Cash Assets		-	-
Workshop Tickets		-	-
<b>TOTAL INCOME</b>		<b>3,246</b>	<b>4,140</b>
<b>EXPENSES</b>			
Accounting		550	530
AGM Catering	6	693	700
Audit & Review		-	150
Bank Fees		32	145
Cafe Scientifique		243	-
Freight & Courier		190	185
Glean Media		500	-
Lecture expenses		287	200
Printing & Stationery		98	150
Scholarships		-	2,000
Science and Technology Fair		1,000	1,000
Subscriptions		-	50
Venue Hired		280	1,000
Website		-	500
<b>TOTAL EXPENSES</b>		<b>3,873</b>	<b>6,610</b>
<b>SURPLUS/(DEFICIT)</b>		<b>(627)</b>	<b>(2,470)</b>

<b>Opening Cash Balance in Bank</b>		20,720
<b>Cash Flow Out</b>	7	3,824
<b>Closing Cash Balance in Bank</b>		16,896

<b>Represented by:</b>		
<b>ANZ Cheque Account</b>		<b>3,896</b>
<b>ANZ Term Deposit</b>		<b>13,000</b>

Treasurer:



Date: 30 September 2016

## **Notes to the Financial Statements**

### **For the year ended 31 August 2016**

#### **1. GENERAL ACCOUNTING POLICIES**

The entity is an incorporated Society established under the Incorporated Societies Act 1908 and a charitable trust registered under the Charitable Trusts Act 1957. These financial statements have been prepared in accordance with the accounting policies stated below.

The measurement base adopted is cash basis record.

#### **2. PARTICULAR ACCOUNTING POLICIES**

##### **Investments**

Investments are valued at the lower of cost or net realisable value.

##### **Incomes and expenses**

Incomes are recognised upon receipt of monies. Expenses are recognised upon transferred payment.

##### **Goods and Services Tax (GST)**

These financial statements have been prepared inclusive of GST.

The Royal Society of New Zealand Wellington Branch Inc. is not registered for GST.

##### **Differential Reporting**

The entity is a qualifying entity of differential reporting by virtue of the fact that is not large and is not publicly accountable. All available exemptions have been applied with the exception of FRS-19, "Goods and Services Tax".

##### **Income Taxation**

The entity is an incorporated Society and Charitable Trust that qualified for income tax deduction as a non-profit organisation. If net surplus is lower than \$1,000, an income tax return is not required by the IRD

##### **Membership Subscriptions and Donations**

The RSNZ Wellington Branch is a membership charitable trust. The subscriptions and donations are non-taxable income.

## Contingent Liabilities and Capital Commitments

There are no contingent liabilities and capital commitments during 2016.

### 3. CHANGES IN ACCOUNTING POLICIES

The entity now applies the accounting standards framework (ASFW) required by the External Reporting Board. This reporting is under Tier 4 of the ASFW requirements. Other than this, there is no change to the accounting policies.

### 4. RELATED PARTIES

There were no related party transactions during the year 2016

### 5. MEMBERSHIP SUBS RECEIVED

	2016	2015
	\$	\$
Ordinary members 26 at rate \$40	1,040	1,240
Retired members 23 at rate \$30	690	960
Family members 12 at rate \$20	240	300
Student members 6 at rate \$15	90	180
Emerita members 26 non-paid	-	-
Honorary members 5 non-paid	-	-
Life members 3 non-paid	-	-
<b>Total</b>	<b>2,060</b>	<b>2,680</b>

### 6. AGM 2015 SPONSORS AND EXPENSES

	2016
	\$
AGM Sponsors	540
AGM Catering	(692)
<b>Total</b>	<b>(152)</b>

### 7. Cash Flow Out

	2016
	\$
Cash flow out 2016	626
Payable 2015	3,240
<b>Total</b>	<b>3,866</b>

## FINANCIAL REVIEWER'S STATEMENT

For the year ended 31 August 2016



**MEMBERSHIP**  
As at 31<sup>st</sup> August 2016

Total 158 (140) Bracketed numbers are as of 31.8.2015  
Ordinary, Family and Retired members 114 (109)  
Student 14 (0)  
Life 3 (3)  
Emeritus 22 (23)  
Honorary 5 (5)

\* Indicates a family member

**Members**

Mr F P Andrews  
Dr R A Arnold  
Dr W M Arnold  
Dr J Azzato  
Dr J Baltaxe  
Dr S C Bannister  
Dr H Barr  
Mr J J Bartlett  
Dr C Bassett  
Dr W Beasley  
Prof M V Berridge  
Dr H M Bibby  
Mr B N Blackett  
Ms H Bright\*  
Ms G L Brown  
Mr D C Calhoun  
Mr D S Capper  
Dr P T Chester\*  
Mr F W Cook  
Ms K Coolahan  
Mr P R Cowley  
Mr J H J Crawford  
Mr R S Cretney  
Prof M J Crozier  
Prof N F Curtis\*  
Mrs Y M Curtis\*  
Mr J Daniels  
Prof C H Daugherty  
Dr R G Davies  
Prof R G Downey  
Dr T Drage  
Dr J Draper  
Dr B H Easton  
Mr E Eldridge  
Cdr D P Fairfax  
Ms K A Fairweather  
Mr J E Field  
Mr G Filer  
Dr J E C Flux\*  
Mrs M M Flux\*  
Mr M Forbes  
Dr L C Forde  
Mr W Freitag  
Mr I Goodwin  
Dr M E Gordon  
Dr V R Gray  
Dr P A Greet\*  
Mr J G Gregory  
Prof J F Harper\*  
Dr M A Harper\*  
Dr S K Hasell  
Ms M Head  
Dr D D Heath  
Dr J Hefford  
Dr R H Herzer  
Dr J S Hickman  
Ms Gail Higgs-West\*  
Ms LM Horwood  
Dr M Ingham  
Dr J B Jones  
Dr R Knibbe  
Mr M H Lehner  
Dr P Lester

Dr G Lewis  
Dr D Lillis  
Ms Q Lin  
Dr G L Lyon  
Dr D V Madle  
Mr E A Mason  
Dr V H McCann  
Donald S McDonald  
Dr A D McEwen\*  
Dr W M McEwen\*  
Mrs B McFadgen\*  
Dr M McGuinness  
Dr W L McLea  
Dr A H McIlraith  
Mr D A McNeill  
Ms A Milburn  
Dr D C Mildenhall  
Dr I J Miller  
Ms B Mitcalfe  
Dr A Mitchell  
Dr H Mogosanu  
Mr O M Moore  
Dr S Moore  
Ms E Munster  
Dr E I F Pearce  
Ms S Penny  
Mr R Persse  
Dr E M Poulter\*  
Dr G F Preddey  
Dr J I Raine\*  
Mr C B Rampton  
Dr M E Reyners  
Mr C J R Robertson  
Ms C M Ross  
Mr C R Smart  
Ms J R Smith  
Prof E G C Smith  
Dr M Staines  
Dr R P Suggate  
Dr C M Sutton  
Mrs H M Tobin  
Dr P Tortell  
Prof M C Visser  
Prof R I Walcott  
Mr D Waters  
Dr G J Weir  
Prof J B J Wells  
Mr I F West  
A M Whitcroft  
Dr D Wratt  
Ms N Yopp

**Student members**

Miss A Cameron  
Miss Z Clark  
Ms M Cooper  
Miss L Gallagher  
Miss N Jones  
Miss L Harrington  
Ms L Kelly  
Ms R Kenny  
Mr C Kraus

Miss K Maxwell  
Ms M Rich  
Miss A Taylor  
Mr S Webber  
Miss R van de Wetering  
**Emeritus members**  
Mr K W Cory-Wright  
Mr P Cotton  
Dr J W Dawson  
Dr R R Dibble  
Dr G W Gibbs  
Dr G W Grindley  
Dr J R Hulston  
Mr C E Ingham  
Mr F B Knox  
Dr D Lovatt  
Mr W J P MacDonald  
Dr A Malahoff  
Mr R J Munster  
Mrs S E Natusch  
Dr J J Reed  
Dr E I Robertson  
Mr L J Rollo  
Dr T M Skerman  
Dr I G Speden  
Dr G R Stevens  
Prof L D Swindale  
Dr W A Watters

**Honorary Members**

Dr O Bauer  
Dr G G C Claridge  
Dr R B Miller  
Mr G L Jones  
Mr V R Moore

**Life Members**

Mrs H R Hughes  
Dr B G McFadgen  
Dr D Spiller



## **THE ORAL HISTORY PROJECT**

The Council is grateful to Nancy Yopp who undertook to complete the Oral History Project. This project started several years ago under George Jones. Some money was sourced from the Stout Trust to undertake oral histories of senior scientists in New Zealand, There are a total of 19 recordings (15 individual scientists and 4 from Victoria's Antarctic Reunion. The following oral history tape abstracts have been completed:

- Pat Suggate – 4 tapes (8 sides)
- Mike Meads – 3 tapes (6 sides)
- Fred Knox – 2 tapes (4 slides)
- Colin Bull – 1 tape (I side)
- Linden Martin – 1 tape (1 side)
- Dick Barwick – 2 tapes (4 sides)
- Peter Web – 2 tapes (3 sides)
- Barry McKelvey (Antarctica) – 1 tape (1 side)

All of the above tapes and written abstracts have been returned to Linda Evans at NZ Turnbull Library, where the other recordings are held.

A sincere acknowledgement of appreciation and Thanks is given to Robert Persse for his dedicated and diligent efforts and the many, many hours of reviewing the tapes and producing the abstracts.

This project is now completed.

## **WELLINGTON SCIENCE FAIR**

Catherine Pot, a Year 13 student from Onslow College, won the \$1000 Royal Society of New Zealand Wellington Branch prize for the best overall exhibit with her project: "A simulation correction technique for the Van der Pauw method".

She also won the Victoria University Innovation Prize of \$4000 towards the fees in the first year of a VUW undergraduate degree in science or engineering, and was also judged first in Class 5. The Van der Pauw method measures the conductivity of semiconductors.

## EVENTS

### HUDSON LECTURE 2016

#### *Reflections on a decade as Parliament's environmental advisor*

27th July 2016

**Dr Jan Wright**

Dr Jan Wright was sworn in as Parliamentary Commissioner for the Environment for a five-year term on 5 March 2007 and reappointed for a second term in 2012. Dr Wright has a multidisciplinary background with a BSc(Hons) in Physics from Canterbury, a Masters degree in Energy and Resources from Berkeley in California, and a PhD in Public Policy from Harvard. Last year she was made a Companion of the Royal Society.

During her time as Commissioner, Dr Wright has investigated a wide range of environmental issues. She became world-famous in New Zealand when she said we were lucky to have 1080 and should use more of it. In this lecture, Dr Wright shared her approach to the role and how this has developed over time. She explained, *inter alia*, how she prioritises the work of her office, how she values information, and what she has learned about dealing with the media.



**Wellington Engineering and Science  
Festival 2016 Lecture Series**

***Where to next? Human spaceflight at the crossroads.***

**19<sup>th</sup> April 2016**

**David MacLennan**

NASA's long-term vision is for a human mission to Mars, but its strategy for getting there is flawed, as it does not include the most logical intermediate step: a return to the Moon. Instead, NASA's proposed intermediate step is to retrieve a large boulder from an asteroid and send an astronaut crew out to investigate it – a plan that is not getting much support from either Congress or the scientific community. A return to the Moon would be a better way to prepare for a journey to Mars, as much of the technology needed for a Mars mission, such as habitats, life-support systems, rovers, tools and instruments, could be first proven under real off—world conditions on the Moon. In addition, recent robotic missions have shown the Moon to be a worthwhile scientific target in its own right.

David MacLennan has been lecturing and writing about space exploration for over four decades. A founder and former President of the NZ Spaceflight Association, he also edited the Association's journal *Liftoff*- for many years.

**Hamilton Lecture**  
**(in conjunction with the RSNZ)**  
**18 August 2016**

**Dr Valerie Soo**

Dr Wooi Chee (Valerie) Soo, formerly of Massey University, but now at State College, Pennsylvania, has been awarded the 2015 Hamilton Memorial Prize by the Royal Society of New Zealand. The Hamilton Memorial Prize is awarded annually for the encouragement of early researchers, for research done in New Zealand.

Enzymes are the molecular workhorses of life. Over the course of evolution, most enzymes have been under selection for high activity and exquisite specificity. Each accelerates one reaction by many orders of magnitude. However, these properties also suggest a lack of versatility and imply that enzymes are unlikely to evolve new functions. Biochemistry appears to be at odds with evolution: we know that new enzymes *can* evolve rapidly, as we have witnessed the emergence of drug-resistant microbes with antibiotic-degrading enzymes.

Valerie grappled with this conundrum in her PhD. She focused on discovering enzymes with weak secondary activities, as this latent biochemical ‘promiscuity’ is proposed to be a critical starting point for evolving new functions. She used a novel high-throughput approach to screen every protein from the laboratory bacterium, *Escherichia coli*, for its ability to confer resistance to antibiotics and toxins. She identified promiscuous proteins that improved growth in 86 of the 237 toxin-containing environments she tested. Thus Valerie was the first to show that even the genomes of well-characterised bacteria harbour enormous reservoirs of latent biochemical functions, which can readily become the seeds of evolutionary innovation.

Valerie’s study is described in a paper which was published in the *Proceedings of the National Academy of Sciences USA*, Vol. 108, 1484—1489. Her work changed the way that many of us think about enzyme evolution. Her paper has been cited 49 times since its publication in 2011.

**TEN BY TEN LECTURE**  
**(In conjunction with the RSNZ)**

*Ten things you didn’t know about climate change*

**7 September 2016**

**Professor Tim Naish**

Tim is Director of the Antarctic Research Centre at Victoria University of Wellington, where he and his team use rock and ice cores as a time machine to look at how the Antarctica ice sheets affected global sea-level in past warmer periods and what this means for our future.

**Professor James Renwick**

James is a Professor of Physical Geography at Victoria University of Wellington where he indulges his fascination for all aspects of the climate system, from the tropics to the poles, and from thousands of years in the past to hundreds of years into the future.



## **ANNUAL GENERAL MEETING 2015**

The AGM was held at 19<sup>th</sup> October 2015 at the Wellington Club, commencing at 6pm & concluding at 6:20pm. The meeting concluded with light refreshments and a guided tour of the Wellington Club. The Wellington Club is New Zealand's oldest private Club. The Council are most grateful to the Wellington Club for their hospitality.

## **CAFÉ SCIENTIFIQUE**

There are two Café Scientifique meeting series organised, one in Wellington city and one at Wholly Bagels in Lower Hutt.

The Wellington venue at Te Papa became unavailable when Te Papa changed their visiting hours at the end of 2015 and Science Express became homeless. A new venue was found by Dr Delphine Michell of the VUW Science in Society group and now meets bimonthly at VK's Comedy and Blues Bar in Dixon Street. Both series were well attended this year.

**THE 52nd NIWA WELLINGTON REGIONAL SCIENCE AND TECHNOLOGY FAIR**  
**31 August – 3 September 2016**

Chairman	John Warriner
Secretary	Brian Belworthy
Accounts	Lesley Young
Committee	Christine Boulton Joji Jacob Nicole Jones Gordon Heeley Nick Julian Sylvia Nichol Michael Pallin Lorraine Warriner
Chief Judge	Bradley Douglass
Website Advisor	Tim Price

The first Wellington Science Fair was held in 1964 in the Caltex Lounge in lower Taranaki Street. In that year there were 66 entries from 94 students. The fair has now grown to over 500 entrants and moved to Victoria University of Wellington in 1999. The Wellington Branch has been involved in the Science Fairs since their inception, and for more than half a century they have supported the Fairs.

Congratulations to all the winners in 2016.

The Wellington Branch of the Royal Society of NZ Prize for Best Overall Exhibit in the Fair was won by Catherine Pot from Onslow College. Her exhibit title was “*A simulation correction technique for the Van der Pauw method*”.

The winners of Class prizes were:

First in Class 1	Lucy Harris <i>The strength of eggs</i> Northland School	
First in Class 2	Ystefano Ubaldo <i>H.A.S.T. = E</i> St Benedicts School	
First in Class 3	Reuben Campbell <i>Breakpoint 3-D printing</i> Rongotai' College	
First in Class 4	Carlos Mendonca <i>Uptake of nitrogen pollutants</i>	Onslow College
First in Class 5	Catherine Pot <i>A simulation correction technique for the Van der Pauw method</i>	Onslow College

**Wellington Regional Science and Technology Fair**

**Financial Accounts**

**For the year ended 31 March 2016**

**Certification of Accounts**

I certify that these accounts have been chosen to be prepared to comply with generally accepted accounting practice (GAAP) for the financial period ending 31 March 2016 for the Wellington Regional Science & Technology Fair (Organising Committee).

The accounts represent an accurate representation of the financial affairs of the Committee for the period.



Lesley Young, CA  
Hon Treasurer

6 May 2016  
Date

**Verification of Accounts**

I have viewed the accounts and supporting papers for the financial period ending 31 March 2016 for the Wellington Regional Science & Technology Fair (Organising Committee).

The papers presented to me represent an accurate representation of the financial affairs of the Committee for the period.



Sandy Dayal  
Chartered Accountant

12 May 2016  
Date

NWA WELLINGTON REGIONAL SCIENCE & TECHNOLOGY FAIR

A Division of the Royal Society of New Zealand - Wellington Branch Inc.  
 (a Registered Charitable Organisation of the Royal Society of New Zealand)

STATEMENT OF FINANCIAL PERFORMANCE  
 FOR THE YEAR ENDED 31 MARCH 2016

	2016	2016	2015	2015
<b>INCOME</b>				
NWA Sponsorship	\$8,000.00		\$7,500.00	
Other Donations	\$7,500.00		\$7,115.00	
Interest - Bank	\$68.00		\$88.00	
<b>Total Income</b>		<b>\$15,568.00</b>		<b>\$14,703.00</b>
<b>EXPENDITURE</b>				
Prizes	\$7,250.00		\$7,044.08	
Printing	\$2,784.25		\$2,187.48	
Entertainment - deductible	\$7,895.98		\$1,670.88	
Entertainment - non-deductible	\$0.00		\$480.00	
Labour	\$4.00		\$0.00	
Stationery	\$4.00		\$84.88	
Postage	\$4.00		\$133.54	
Photocopying	\$46.00		\$101.00	
Bank Fees	\$0.00		\$8.00	
Miscellaneous Expenses	\$7.00		\$18.50	
<b>Total Expenditure</b>		<b>\$16,770.15</b>		<b>\$15,511.94</b>
<b>NET INCOME(LOSS)</b>		<b>(\$1,202.07)</b>		<b>(\$808.94)</b>

STATEMENT OF FINANCIAL POSITION  
 AS AT 31 MARCH 2016

	2016	2016	2015	2015
<b>ASSETS</b>				
Bank Account - General Fund	\$4,894.84		\$6,651.21	
Bank Account - HD Gordon Memorial Fund	\$2,204.61		\$7,502.30	
		<b>\$7,099.44</b>		<b>\$9,153.51</b>
Interest Receivable from NZNZ		\$0.00		\$0.00
Term Deposit		\$0.00		\$0.00
Accounts Receivable		\$0.00		\$0.00
<b>TOTAL ASSETS</b>		<b>\$7,099.44</b>		<b>\$9,153.51</b>
<b>LIABILITIES</b>				
Accounts Payable	\$190.00		\$071.40	
Account Expenses - Unpresented Cheques	\$80.00		\$000.00	
<b>Total Liabilities</b>		<b>\$270.00</b>		<b>\$1,071.40</b>
<b>EQUITY</b>				
Retained Earnings - General Fund	\$0,697.88		\$0,660.17	
Retained Earnings - HD Gordon Memorial Fund	\$2,204.61		\$2,562.36	
(Loss) for the Year	(\$1,202.07)		(\$808.36)	
<b>Total Equity</b>		<b>\$6,230.44</b>		<b>\$7,682.11</b>
<b>TOTAL LIABILITIES AND EQUITY</b>		<b>\$7,289.44</b>		<b>\$9,153.51</b>
cross check		\$0.00		\$0.00

WELLINGTON SCIENCE FAIR

Trial Balance	31/03/2016 DR	CR	31/03/2016	
<b>INCOME</b>				
NSRF sponsorship		(8,000.00)	(8,000.00)	
Other donations - retained in bank		(7,390.00)	(7,390.00)	
Rebate by Display Booths		2.00	2.00	
Interest - Bank		(95.40)	(95.40)	
<b>EXPENSES</b>				
Prizes awarded	12,740.00	(220.00)	12,520.00	
Printing	2,504.20		2,794.20	
Entertainment - deductible	1,818.14	(216.30)	1,599.84	
Entertainment - non deductible	793.23	(793.23)	0.00	
Labour	0.00		0.00	
Stationery	0.00		0.00	
Postage	0.00		0.00	
Photocopying	400.00		400.00	
Bank fees	0.00		0.00	
Miscellaneous	43.00	(40.00)	3.00	
	18,275.08	(18,747.89)	1,327.87	
<b>ASSETS</b>				
Bank account - National Bank	8,193.01	80.00	(7,914.81)	1,298.44
Interest receivable from bank	0.00		0.00	0.00
Accounts Receivable	0.00		0.00	0.00
Term Deposit	0.00		0.00	0.00
<b>LIABILITIES</b>				
Accounts Payable - The Warriors catering at 2015 WSP \$200.00	(871.40)	871.40	(798.00)	(798.00)
Committee dinner 2015 \$450	(870.00)	800.00	(80.00)	(80.00)
Accrued Expenses - wages upto 31 March 2016 \$80				
<b>EQUITY</b>				
Retained Earnings	(7,802.11)			(7,802.11)
YTD Net Income	0.00			0.00
<b>TOTAL</b>	<b>0.00</b>	<b>0.00</b>	<b>(18,421.86)</b>	<b>0.00</b>

Breakdown of prizes awarded	
Prizes 2015 WSP	11,715.00
Prize \$1-100	50.00
Replaced chips prior year WSP	625.00
Bank voucher prizes	400.00
Class 3-4 school chips	650.00
Reverse 2014 un-paid chips	(220.00)
	<u>12,520.00</u>

Notes

1. Accrued \$80 in un-presented cheques for the 2015 awarded prizes

DR Bank	80.00	
CR Accrued expenses - wages chips		80.00
2. Write off \$200.00 in un-presented cheques for the 2014 awarded prizes

DR Accrued expenses - wages chips	200.00	
CR Prizes		200.00
3. Reverse incorrect Winner expense claim 2013 Fair - now paid

DR Accounts Payable	671.40	
CR Catering at Fair (Committee lunch) - Entertainment Deductible		270.00
CR General expenses - flowers for retiring Chief Judge		40.00
CR Committee thank you meal - Entertainment Non Deductible		361.40
4. Reverse accrual for WSP Committee Dinner to celebrate 2014 Fair (Teresa Sir - now attended and paid)

DR Accrued Expenses	400.00	
CR Misc expenses (non deductible)		400.00
5. Accrue to reimburse the Warriors for WSP Committee Dinner to celebrate 2014 Fair (Aileen)

DR Misc expenses (non deductible)	400.00	
CR Accounts Payable		400.00

(no expense from received yet)
6. Accrue for Winner catering at WSP 2015

DR Catering at Fair (Committee lunch) - Entertainment Deductible	300.00	
CR Accounts Payable		300.00

(no expense from received yet)
7. In U Gordon account

Closing balance	2,762.30
Prizes awarded	(790.00)
Interest for the year (term deposit @ 1.5%)	0.00
	<u>2,264.30</u>
8. Entertainment expenses - the catering at the Fair is 100% deductible

Catering at 2015 fair accrued - Lorraine Warner	300.00	
Catering at 2015 fair actual - Elaine Lethbridge	1,800.00	1,800.00

Total meal expenses: 1,800.00



Site	Reference	Description	Height	Area	Volume	Weight	Material	Notes	CFR (approx. other systems) (kg/m³)
1000	1000	...	...	...	...	...	...	...	
1001	1001	...	...	...	...	...	...	...	
1002	1002	...	...	...	...	...	...	...	
1003	1003	...	...	...	...	...	...	...	
1004	1004	...	...	...	...	...	...	...	
1005	1005	...	...	...	...	...	...	...	
1006	1006	...	...	...	...	...	...	...	
1007	1007	...	...	...	...	...	...	...	
1008	1008	...	...	...	...	...	...	...	
1009	1009	...	...	...	...	...	...	...	
1010	1010	...	...	...	...	...	...	...	
1011	1011	...	...	...	...	...	...	...	
1012	1012	...	...	...	...	...	...	...	
1013	1013	...	...	...	...	...	...	...	
1014	1014	...	...	...	...	...	...	...	
1015	1015	...	...	...	...	...	...	...	
1016	1016	...	...	...	...	...	...	...	
1017	1017	...	...	...	...	...	...	...	
1018	1018	...	...	...	...	...	...	...	
1019	1019	...	...	...	...	...	...	...	
1020	1020	...	...	...	...	...	...	...	
1021	1021	...	...	...	...	...	...	...	
1022	1022	...	...	...	...	...	...	...	
1023	1023	...	...	...	...	...	...	...	
1024	1024	...	...	...	...	...	...	...	
1025	1025	...	...	...	...	...	...	...	
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1028	1028	...	...	...	...	...	...	...	
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1038	1038	...	...	...	...	...	...	...	
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1094	1094	...	...	...	...	...	...	...	
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1096	1096	...	...	...	...	...	...	...	
1097	1097	...	...	...	...	...	...	...	
1098	1098	...	...	...	...	...	...	...	
1099	1099	...	...	...	...	...	...	...	
1100	1100	...	...	...	...	...	...	...	



Processed Date	Type	Details	Particulars	Code
17 Mar 2016	Cheque	Cheque 623508	000241385507	
03 Feb 2016	Cheque	Cheque 101948	001242152312	000000000000
03 Feb 2016	Cheque	Cheque 101964	001242152313	000000000000
22 Jan 2016	Cheque	Cheque 101950	000242309456	
13 Jan 2016	Cheque	Cheque 101935	013806000782	
24 Dec 2015	Cheque	Cheque 101814	000242053068	
21 Dec 2015	Cheque	Cheque 101968	000641202313	
21 Dec 2015	Cheque	Cheque 101813	000341214065	
15 Dec 2015	Cheque	Cheque 623515	013806002157	
11 Dec 2015	Cheque	Cheque 623503	000242023300	
30 Nov 2015	Cheque	Cheque 101957	013806001558	
20 Nov 2015	Cheque	Cheque 101926	000242416137	
12 Nov 2015	Cheque	Cheque 101967	000641220135	
12 Nov 2015	Cheque	Cheque 101928	000641220133	
12 Nov 2015	Cheque	Cheque 623517	000641219828	
28 Oct 2015	Cheque	Cheque 623510	000341303143	
22 Oct 2015	Cheque	Cheque 101945	000241161847	
19 Oct 2015	Cheque	Cheque 623513	013806002912	
15 Oct 2015	Cheque	Cheque 101815	000641418612	
13 Oct 2015	Cheque	Cheque 101941	001241356218	000000000000
13 Oct 2015	Cheque	Cheque 101816	001211221781	000000000000
09 Oct 2015	Cheque	Cheque 101922	000214044165	
29 Sep 2015	Cheque	Cheque 623501	013806001751	
25 Sep 2015	Cheque	Cheque 101944	013806002592	
24 Sep 2015	Cheque	Cheque 101929	000642432605	
24 Sep 2015	Cheque	Cheque 623512	001213199900	000000000000
22 Sep 2015	Cheque	Cheque 623502	000242358831	
22 Sep 2015	Cheque	Cheque 101817	001241217893	000000000000
22 Sep 2015	Cheque	Cheque 101812	000642359700	
21 Sep 2015	Cheque	Cheque 101820	000642318567	
18 Sep 2015	Cheque	Cheque 101930	000643081188	
18 Sep 2015	Cheque	Cheque 101986	013806001122	
17 Sep 2015	Cheque	Cheque 623507	000642269599	
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15 Sep 2015	Cheque	Cheque 101942	000341436533	
15 Sep 2015	Cheque	Cheque 101934	001242192026	000000000000
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14 Sep 2015	Cheque	Cheque 101955	013806001360	
14 Sep 2015	Cheque	Cheque 101811	001213011092	000000000000
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11 Sep 2015	Cheque	Cheque 623504	013806001551	
09 Sep 2015	Cheque	Cheque 101931	001241291703	000000000000
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08 Sep 2015	Cheque	Cheque 623520	001241256599	000000000000
08 Sep 2015	Cheque	Cheque 623516	000341248046	
08 Sep 2015	Cheque	Cheque 101932	001213421913	000000000000
07 Sep 2015	Cheque	Cheque 101963	001241218941	000000000000
07 Sep 2015	Cheque	Cheque 101943	000341208003	
07 Sep 2015	Cheque	Cheque 623509	013806000498	
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04 Sep 2015	Cheque	Cheque 101962	000341161414	
04 Sep 2015	Cheque	Cheque 101940	000642424548	
04 Sep 2015	Cheque	Cheque 623519	011506000055	

03 Sep 2015	Cheque	Cheque 101960	000641123277
03 Sep 2015	Cheque	Cheque 101933	013806001649
03 Sep 2015	Cheque	Cheque 101925	000341123064
03 Sep 2015	Cheque	Cheque 101924	000642385031
02 Sep 2015	Cheque	Cheque 101954	013806000823
02 Sep 2015	Cheque	Cheque 101952	001213340320 000000000000
02 Sep 2015	Cheque	Cheque 101951	001213340319 000000000000
02 Sep 2015	Cheque	Cheque 623514	013806001340
01 Sep 2015	Cheque	Cheque 101059	000241049954
01 Sep 2015	Cheque	Cheque 623518	001241051502 000000000000
01 Sep 2015	Cheque	Cheque 101946	001213303962 000000000000
01 Sep 2015	Cheque	Cheque 101818	001213303963 000000000000
01 Sep 2015	Cheque	Cheque 623511	001213311262 000000000000
31 Aug 2015	Cheque	Cheque 101938	000641002134
31 Aug 2015	Cheque	Cheque 101937	013806002818
31 Aug 2015	Cheque	Cheque 101949	000242271217
31 Aug 2015	Cheque	Cheque 101947	013806000499
30 Jun 2015	Cheque	Cheque 101810	000631291077
09 Jun 2015	Cheque	Cheque 101809	000331090998

Reference	Amount	
000000623508	-\$100.00	7,299.44
000000101948	-\$100.00	7,377.36
000000101964	-\$350.00	7,477.36
000000101950	-\$200.00	7,527.36
000000101935	-\$250.00	7,727.36
000000101814	-\$50.00	7,977.36
000000101968	-\$1,300.00	8,027.36
000000101813	-\$50.00	9,327.36
000000623515	-\$100.00	9,377.36
000000623503	-\$50.00	9,477.36
000000101957	-\$600.00	9,527.36
000000101926	-\$50.00	10,127.36
000000101867	-\$525.00	10,177.36
000000101928	-\$150.00	10,702.36
000000623517	-\$100.00	10,852.36
000000623510	-\$100.00	10,852.36
000000101945	-\$275.00	10,752.36
000000623513	-\$50.00	11,027.36
000000101815	-\$50.00	11,077.36
000000101941	-\$600.00	11,127.36
000000101816	\$100.00	11,727.36
000000101922	-\$200.00	11,827.36
000000623501	-\$30.00	11,967.36
000000101944	-\$150.00	11,997.36
000000101929	-\$150.00	12,147.36
000000623512	-\$50.00	12,297.36
000000623502	-\$50.00	12,347.36
000000101817	-\$50.00	12,397.36
000000101812	-\$50.00	12,447.36
000000101820	-\$50.00	12,497.36
000000101930	-\$150.00	12,547.36
000000101906	-\$120.00	12,697.36
000000623507	-\$80.00	12,817.36
000000101819	-\$50.00	12,897.36
000000101965	-\$2,194.20	12,947.36
000000101942	-\$300.00	15,141.56
000000101934	-\$175.00	15,441.56
000000623506	-\$60.00	15,616.56
000000101753	-\$50.00	15,676.56
000000101955	-\$200.00	15,726.56
000000101811	-\$30.00	15,926.56
000000101953	-\$300.00	15,956.56
000000623504	-\$50.00	16,256.56
000000101931	-\$100.00	15,731.56
000000101936	-\$250.00	15,831.56
000000623520	-\$100.00	16,081.56
000000623518	-\$100.00	16,181.56
000000101932	-\$100.00	16,281.56
000000101963	\$400.00	16,381.56
000000101943	-\$210.00	16,781.56
000000623509	-\$100.00	16,991.56
000000101939	-\$100.00	17,091.56
000000101921	-\$100.00	17,191.56
000000101856	\$400.00	17,291.56
000000101958	-\$300.00	17,691.56
000000101962	-\$250.00	17,991.56
000000101940	-\$200.00	18,241.56
000000623519	-\$150.00	18,441.56

000000101960	-\$400.00	18,591.56
000000101933	-\$175.00	18,991.56
000000101925	-\$100.00	19,166.56
000000101924	-\$100.00	19,266.56
000000101954	-\$100.00	19,366.56
000000101952	-\$100.00	19,466.56
000000101951	-\$100.00	19,566.56
00000623514	-\$50.00	19,666.56
000000101950	-\$1,650.00	19,716.56
00000623518	-\$100.00	21,366.56
000000101946	-\$100.00	21,466.56
000000101818	-\$100.00	21,566.56
00000623511	-\$50.00	21,666.56
000000101936	-\$250.00	21,672.15
000000101937	-\$250.00	21,922.15
000000101949	-\$200.00	22,172.15
000000101947	-\$100.00	22,372.15
000000101810	-\$465.00	9,542.15
000000101809	-\$671.36	9,557.15