# NIWA South and East Auckland Science & Technology Fair Prize Giving Ceremony

# Tuesday, 27 August 2019 Elím Christian College Auditorium 7 to 8:30 pm

Emcee: Richard Henty, Howick College

Welcome	Catherine Hunter
Presentation of Category Awards	Príze Sponsors
Musical Interlude	Elim Christian College students
Guest Speaker	John Chen,
	2018 Premier Award Winner
Presentation of Special Awards	Príze Sponsors
Presentation of the Premier Award	Jonathan Moores, NIWA
Closing	Ríchard Henty

Your prize money comes in the form of a cheque which is found in your envelope. Please cash all cheques by December 31, 2019.

# Sponsor's Message

A very warm welcome to the 2019 NIWA South and East Auckland Science & Technology Fair.

It's a great pleasure for NIWA to support this outstanding event once again, and we congratulate all the students, parents, teachers and supporters who have worked so hard to ensure its success.

NIWA Science & Technology Fairs are a wonderful opportunity for students to showcase their talent and enthusiasm for science, and to gain recognition for their excellence and innovation. Across the country, thousands of students have been involved in researching, constructing and presenting exhibits. Participation is on its own a powerful learning tool, but above all else they should be fun.

Naturally, NIWA has a vested interest in nurturing a passion for science and technology among young New Zealanders. Enhancing knowledge in NIWA's key areas of scientific focus – the atmosphere, the ocean, and freshwater – is critical to the sustainable growth of New Zealand as a nation. We need fresh enquiring minds to maintain this momentum. A career in science and technology is as rewarding as it is important – and right here is where we hope a spark may be lit.

NIWA is the main sponsor of the South and East Auckland, Auckland City, North Harbour, Waikato, Bay of Plenty, Wellington and Canterbury-Westland Science and Technology Fairs. These events form part of our long-term commitment to enhancing engagement with science and technology by young New Zealanders.

Thank you to the organising committee, judges, schools and other sponsors for your commitment and support in promoting the NIWA South and East Science & Technology Fair. Without you, this exciting event simply wouldn't happen.

Tracey Burton

NIWA Science Fairs Co-ordinator



Proud sponsors of Regional Science and Technology Fairs

# Category 1 – Years 7 and 8 Living World

Sponsored by Wai Shing Ltd.



#### FIRST PLACE

#### **Harrison Eagle and Bethany Eagle**

Howick Intermediate School
Nuts About Calories

#### SECOND PLACE

### **Niko McConnell and Ty Hatton**

Howick Intermediate School Are these EMFs roasting my beans?

#### THIRD PLACE

### Emma Segedin

Farm Cove Intermediate School Antibacterial Native Plants

#### HIGHLY COMMENDED

#### **Abigail Neumann**

Elim Christian College To touch or not to touch?

#### **HIGHLY COMMENDED**

#### **Angela Clark**

Howick Intermediate School I always feel like somebody's watching me

#### HIGHLY COMMENDED

#### **Jack Want**

Somerville Intermediate School Diabetes in Action

#### HIGHLY COMMENDED

#### Benjamin McLaren

Somerville Intermediate School The Wormhole

# Category 2 – Years 7 and 8 Physical and Material World

Sponsored by Auckland Science Teachers Association



#### **FIRST PLACE**

#### Olivia Dixon

Somerville Intermediate School *Too Loud!* 

#### SECOND PLACE

#### **Keagan Wolsky**

Elim Christian College The Big Ice Meltdown

#### THIRD PLACE

#### **Brayden Larcombe**

Farm Cove Intermediate School Rust wars

#### **HIGHLY COMMENDED**

#### Kaydee Arundale

Farm Cove Intermediate School Hard as a brick, soft as a feather

#### **HIGHLY COMMENDED**

### **Ava Galloway**

Saint Kentigern College Fizzier or not?

#### **HIGHLY COMMENDED**

#### **Reilly Richardson**

Saint Kentigern College Feel the breeze

Category 3 – Years 7 and 8
Environmental Science / Planet Earth
and Beyond

Sponsored by NIWA

Category 4 – Years 7 and 8
Intermediate Consumer Science
Sponsored by the Kiwanis Club of Drury



NIWA
Taihoro Nukurangi

Proud sponsors of Regional Science and Technology Fairs

**FIRST PLACE** 

**Lucy Waters** 

Saint Kentigern College

Road Kill

**SECOND PLACE** 

**Sofia Currie** 

Somerville Intermediate School How Clean Is My Beach

**THIRD PLACE** 

**Hannah Anderson** 

Saint Kentigern College Protecting our Wai

**HIGHLY COMMENDED** 

**Christopher Revell-Devlin** 

Saint Kentigern College

The Final Straw

HIGHLY COMMENDED

Luca Papesch and Joshua Ly

Elim Christian College

Oil Spills

FIRST PLACE

Aleisha Coleman

Somerville Intermediate School What's with all the Gluten-Free Waffles?

SECOND PLACE

**Rosie Ireland** 

Mission Heights Junior College Cake Tin Bake Off

THIRD PLACE

**Greer Gilhooly** 

Saint Kentigern College Organic? Non-Organic?

**HIGHLY COMMENDED** 

Mihika Pai, Abbie Yeung and Brita Chauhan

Mission Heights Junior College Playing with Fire

Category 5 - Years 7 to 10 **Technology / Innovations** Sponsored by KP Group Ltd



#### FIRST PLACE

Reuben Martin

Somerville Intermediate School Give Me a Brake. Car!

#### SECOND PLACE

Alana Santoso

Sancta Maria College Heart Rate Controlled Smart Light

#### THIRD PLACE

**Joe Thistlewaite and Camerone Chin** 

Somerville Intermediate School Laptop Corner Protectors

#### HIGHLY COMMENDED

Sophie Clark

Pukekohe High School The slump and slip stopper

#### HIGHLY COMMENDED

Mika Ramsing

Mission Heights Junior College Hose Power

### Category 6 - Years 9 and 10 Living World

Sponsored by Kiwanis Club of Waiau Pa-Clarks Beach



#### FIRST PLACE EQUAL

Helen Thai and John Thai

Aorere College Creeping CO<sub>2</sub>

#### FIRST PLACE EQUAL

**Liam McCormick and Xander Snyman** 

Howick College

Fueled Fruits

#### THIRD PLACE

### **Zachary McIvor and Caleb Therond**

Howick College Times and distractions

#### HIGHLY COMMENDED

Amy Vongsaly, Arizana Wulf and Toafa Laurenson

Aorere College The Heart of Music

Category 7 – Years 9 and 10 Physical and Material World

Category 8 - Years 9 and 10 **Environmental Science / Plant Earth** and Beyond

Sponsored by New Zealand Steel Ltd.

Sponsored by Kiwanis Club of Papakura



# **FIRST PLACE**

### Jahnavi Shah, Faatimah Nisa and **Bonnie Ye**

Mission Heights Junior College LED there be light



# SECOND PLACE

**Oliver Bergquist** Pukekohe High School What is a Tuned Mass Damper

#### **HIGHLY COMMENDED**

# Tyler Sangster, Manveer Singh Saini and Daniel Twentyman

**Howick College** Furious Flames

#### **HIGHLY COMMENDED**

# Aryan Kumar, Harshitha Surendran and Raiyan Khan

Mission Heights Junior College Chocolicious

#### HIGHLY COMMENDED

### **Matthew Clooney**

Pukekohe High School Bridge Busters

### FIRST PLACE

## Navini Ariyasinghe

Mission Heights Junior College Great Green Corridors

# Category 9 – Year 9 to 13 Secondary Consumer Science

Sponsored by Auckland Science Teachers Association



# Category 10 – Primary Science and Technology

Sponsored by Storage King, Botany South



### **FIRST PLACE**

Sam Cato

Pukekohe High School Super Glue...Weighing Them Up

#### **SECOND PLACE**

**David Narayanan** 

Tyndale Park Christian School Power Up

#### THIRD PLACE

Reed Snell, Zephaniah Grieg, Gabrial Batty

Tangaroa College Boozy Kombucha

#### **FIRST PLACE**

**Katie Migounoff** 

Glenbrook School What's in Waiuku Water?

#### SECOND PLACE

Alex Johnson and Blake Nankivell

Botany Downs School Bottled Up Buoyancy

#### HIGHLY COMMENDED

**Euan Hooi and Jeremy Lee** 

Elim Christian College Does playing Minecraft Education give you a better maths result?

Category 11 – Years 11 to 13 Senior Science

Sponsored by NIWA



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### **FIRST PLACE**

**Matthew Fleming and Joseph Fleming** 

Pukekohe High School This Acid Rocks

### **SECOND PLACE**

**Anna McCarthy and Abbie Reid** 

Pukekohe High School

**Asteroids** 

#### The IET Innovation Awards

Sponsored by the Institution of Engineering and Technology

#### **JUNIOR AWARD**

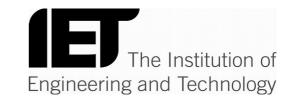
**Connor Nankivell** 

Howick Intermediate School Tops for Recycling – Part 2

### **SENIOR AWARD**

# **Alexander Coleman-Chaiman**

Pukekohe High School Packing Problems



# **Award for Best Application of Electronics** Sponsored by NIWA

### **Kishan Harry**

Somerville Intermediate School *How loud is it?* 



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# Science Award Trust (Years 7 and 8 Only) Sponsored by Science Award Trust



# Harrison Eagle and Bethany Eagle Howick Intermediate School

Nuts About Calories

# **Best Project by a Maori Student**

Sponsored by Manukau Institute of Technology

#### Sam Cato

Pukekohe High School Super Glue...Weighing Them Up



# Best Project by a Pasifika Student

Sponsored by Manukau Institute of Technology

# Amy Vongsaly, Arizana Wulf and Toafa Laurenson

Aorere College The Heart of Music



### The Environment Award

Sponsored by NIWA

### Mika Ramsing

Mission Heights Junior College Hose Power



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# **Best Soil Science Related Project Award**

Sponsored by NZ Society for Soil Science

# **Benjamin McLaren**

Somerville Intermediate School *The Wormhole* 



# **Auckland Transport Travelwise Award**

Sponsored by Auckland Transport

### Kayan Lawyer

Somerville Intermediate School Blind Corner Warning Sign



#### **Best Use of Flour Award**

Sponsored by the Baking Industry Research Trust

#### FIRST PLACE

#### **Rosie Ireland**

Mission Heights Junior College Cake Tin Bake Off



### **SECOND PLACE**

#### Aleisha Coleman

Somerville Intermediate School What's with all the Gluten-Free Waffles?

#### **Best Use of Statistics Award**

Sponsored by the New Zealand Statistical Association



#### Helen Thai and John Thai

Aorere College Creeping CO<sub>2</sub>

# **The School Encouragement Award**

Sponsored by New Zealand Institute of Food Science and Technology



# **Cockle Bay School**

# Prizes for Best Innovation, Invention, or Investigation by Year Level Sponsored by NIWA

### Year 7

#### **Reuben Martin**

Somerville Intermediate School Give Me a Brake, Car!

### Year 8

#### Olivia Dixon

Somerville Intermediate School *Too Loud!* 

### Year 9

### **Navini Ariyasinghe**

Mission Heights Junior College Great Green Corridors



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### Year 10

#### Helen Thai and John Thai

Aorere College Creeping CO<sub>2</sub>

<u>Year 11</u>

Not Awarded

Year 12

Not Awarded

Year 13

Not Awarded

New Zealand Heritage Award

Sponsored by NIWA

Navini Ariyasinghe

Mission Heights Junior College Great Green Corridors



Best Application of the Scientific Method Sponsored by the University of Otago

**Alexander Coleman-Chaiman** 

Pukekohe High School Packing Problems



The Eric Clague Kiwanis Award Sponsored by Kiwanis Clubs of Counties Manukau

Olivia Dixon

Somerville Intermediate School *Too Loud!* 



Premier Award for Best Exhibit of the Fair Sponsored by NIWA

Helen Thai and John Thai Aorere College Creeping CO<sub>2</sub>



# Special Thanks to our Judges and Committee

Our team of judges are recognised as specialists in their fields. Judges are a mixture of professionals from local schools, universities, technology institutes and the science and technology industries.

# **Judges**

Chief Judge: Chandar Dewan, Tangaroa College	
Aljo Anand, University of Auckland	Sneh Patel, University of Auckland
Ralph Thoroughgood	Karen Bishop, University of Auckland
Sarah Maessen, Liggins Institute, UoA	Jamie Chow, IET
Rayomand Shahlori, Citizen Science	Tim Koorey, University of Auckland
Stuti Misra, University of Auckland	Chris Quill, Fisher & Paykel Healthcare
Julie Zhou, Fonterra Brands New Zealand	Cheryl Frankis, Vector Limited
Shikha Pundir, Liggins Institute, UoA	Joshwin Lal, Manukau Institute of Technology
John Sluyter, University of Auckland	Lynn Dunbar, Farm Cove Intermediate School
Carol Duffield, Somerville Intermediate School	Ben Doughney, Mission Heights Junior College
Michael Browne, University of Auckland	Dion Cowley, Mission Heights Junior College
Richard Henty, Howick College	Angela Rees, Elim Christian School
Nishalia Maharaj, Mission Heights Junior College	Sarbjot Kaur, University of Auckland
Odette Jennings, University of Auckland	Ravi Telang, University of Auckland
Chief Judge: Chandar Dewan, Tangaroa College	Chief Judge: Chandar Dewan, Tangaroa College
Aljo Anand, University of Auckland	Sneh Patel, University of Auckland

#### **Science Fair Committee**

Co-Convenors	Richard Henty and Catherine Hunter
Secretary	Angela Rees
Treasurer	Dion Cowley
Chief Judge	Chandar Dewan
Sponsorship	Melanie Kindley
Registration / Webmaster	Ben Doughney

A special thanks to Mission Heights Junior College for hosting the Fair and to Elim Christian College for hosting the Prize Giving.

We would also like to thank teachers for their ongoing commitment in supporting students with their projects.

Website: www.sciencefairmanukau.org.nz

# 2019 Participating Schools

Aorere College Botany Downs School Cockle Bay School Elim Christian College Farm Cove Intermediate School Glenbrook Schol Howick College Howick Intermediate School Mission Heights Junior College Pukekohe High School Pukekohe Hill School Pukekohe Intermediate School Saint Kentigern College Somerville Intermediate School Tangaroa College Tyndale Park Christian School



# Thank you to our Sponsors



Proud sponsors of Regional Science and Technology Fairs

































