



Taihoro Nukurangi

Proud sponsors of Regional Science and Technology Fairs

NIWA Waikato Regional Science & Technology Fair

PRIZE WINNERS 2016



Waikato Science Teachers Association



THE UNIVERSITY OF
WAIKATO
Te Whare Wānanga o Waikato



Profitability. Sustainability. Competitiveness.



CLASS 1 – Year 7 Living World sponsored by Tatua Diary Co-operative Company Ltd

Highly commended:

- **Summer Cameron & Georgia Moess** from Cambridge Middle School
- **Natasha Linton & Christine Shaw** from St Patrick's School
- **Marni Matheson** from St Peter's School
- **Holly Swanson** from St Columbas Catholic School
- **Hawaiki Te Aho** from Peachgrove Intermediate School

3rd: Samuel Shaw from Te Awamutu Intermediate with his project "Supa Manuka"

2nd: Tara Lingard from St Columbas Catholic School with her project called "Magnetic plants"

1st: Michelle Jeng from Berkley Normal Middle School with "I am watching you"

CLASS 2 - Year 8 Living World sponsored by DairyNZ

Highly commended:

- **Matilda Griffiths** from Peachgrove Intermediate School
- **Kaitlin Heaslip** from Cambridge Middle School
- **Sam Stewart** from Ohaupo School
- **Xanthe Wainui-Mackle and Estella Wainui-Mackle** from St Joseph's Fairfield

3rd: Halley Aish from Fairfield Intermediate School for "Tuna in Rototuna"

2nd: Lucy Harris from Kimihia School with "A wee difference"

1st: Isabelle Camplin with "Kauri Kilzone" from Berkley Normal Middle School

CLASS 3 - Year 7 Material World sponsored by NZIC

Highly commended:

- **Emily Crabb** from Orini Combined School
- **Brookklyn Hayde and Eren Lumiwes** from St Pius Catholic School

3rd: **Hitesh Malhorta** from Peachgrove Intermediate with "Effects of temperature on dissolving alka seltzer tablets"

2nd: **Georgia Cutler and Chloe Challis** from St Peter's School with "Have another piece of fruit or not?"

1st: **Logan Hammerton** with "Growing Green Gold" from Pirongia School

CLASS 4 - Year 8 Material World sponsored by Waikato Regional Council

Highly commended:

- **Mimi Boister and Jordan Hazelhurst** from St Peter's School
- **Sarah Cathcart** from Berkley Normal Middle School

3rd: **Maz Curle** from St Columbas Catholic School with "Say it with a smile"

2nd: **Amelia Le Comte** with "Ready set no" from Southwell School

1st: **Timothy Evans** with "Aftertaste" from Peachgrove Intermediate School

CLASS 5 - Year 7-8 Physical World sponsored by Babbage

Highly commended:

- **Campbell Colquhoun** from St Peter's School
- **Joany Hester** from Glen Massey School
- **Mira Heubeck** from Cambridge Middle School
- **Louis Hunt and Logan McCullough** from Cambridge Middle School
- **Ella Leighton** from St Columbas Catholic School
- **Isla McCabe and Michaela Greene** from St Joseph's Fairfield
- **Stacey Prince** from Waipa Primary School
- **Sophie Stokes and Ava Dillon** from St Joseph's Fairfield
- **Jordan Searancke** from St Columbas Catholic School

3rd: **Jacob Wright** with "Nailed it" from St Joseph's Fairfield

2nd: **Joshua Henderson** from Pirongia School with "The sugar solution"

1st: **Grace Wisnewski** with "Egg freshness" from St Peter's School

CLASS 6 - Year 7-8 Planet Earth and beyond sponsored by University of Waikato (Department of Earth and Ocean Sciences)

Highly commended:

- **Bella Anderson and Portia Houston** from St Peter's School
- 3rd:** **James Hartley and Cody Harker** from Cambridge Middle School with "How dinosaurs went extinct"
- 2nd:** **Isaac Shipman and Kyle Aitken** with "Deadly Rain" from Cambridge Middle School
- 1st:** **Alice Duncan** with "Twinkle Twinkle little Star" from St Peter's School

CLASS 7 - Year 9-10 Living World sponsored by SciPad

Highly commended:

- **Sarah Gajzago** from St Peter's School
 - **Jackson Keightley** from Hamilton Boys High School
 - **Danielle Gordon** from Waikato Diocesan School
 - **Anni Matheson** from St Peter's School
- 3rd:** **Emerson Swanson-Dobbs and Jamal Robertson** from St Peter's School with "Cut the crap - help restore Lake Rotoroa"
- 2nd:** **Tayla Stewart** with "Greener pastures" from St Peter's School
- 1st:** **Aleks Apperley** from Te Awamutu College with "Antibiotic aspiration"

CLASS 8 - Year 9-10 Material World sponsored by University of Waikato (Department of Chemistry)

- 3rd:** **Josh Kalmar and Shobhit Kumar** from St Peter's School with "Ocean Acidification"
- 2nd:** **James-Hardy Rorimpandey** with "Be gone headache" from Hamilton Boys High School
- 1st:** **Chloe Malone** from St Peter's School with "How permanent are your markers"

CLASS 9 - Year 9-10 Physical World sponsored by James and Wells

Highly commended:

- **Noah Harvey** from Hamilton Christian School
- **Lochie Montgomerie** from St Peter's School
- **Bradley Robertson** from Hamilton Boys High School

3rd: Megan Spring with "Rubber bike tyres" from Waikato Diocesan School for Girl

2nd: Trent Campbell from Hamilton Boys High School with "Sound suffocation"

1st: Chanel Morey and Madison Swap with "Bay Watch" from St Peter's School

CLASS 10 - Year 9-10 Planet Earth and beyond sponsored by Kiwanis Club of Westside Hamilton

Highly commended:

- **Quinn Alexander** from St Peter's School

3rd: Harriet Butcher and Emma Barker from St Peter's School with "The tides have turned"

2nd: Adam Nachowitz with "Water retention and rate of percolation" from Hillcrest High School

1st: Jack Foley and his project "Local Stream, global Dilemma" from St Peter's School

CLASS 11 - Year 11-13 Senior Sciences sponsored by Hill Laboratories

Highly commended:

- **Rhys Duncan** and his project "Spectroscopic analysis of Wolf-Rayet Stars" from St Peter's School

3rd: Nivedita Singh from St Peter's School with "The Grey Hair Remedy?"

2nd: Lachlan Craig and his "fireworks" project from St Peter's School

1st: Amber Rowan-Sanders for "Social Hierarchies in herds of Dairy Cattle" from St Peter's School

CLASS 12 - Year 7-8 Junior Inventions and Technical Innovations sponsored by IPENZ

Highly commended:

- **Sophie Frame** from Berkley Normal Middle School
- **Bailey Lindsey** from Peachgrove Intermediate School

3rd: **Drishya Patel** from Peachgrove Intermediate School with "Introducing the transformer"

2nd: **Sophie Lewis and Nicholas Geer** from Te Pahu School with "Cloud Juice Guttering"

1st: **Cheng-Yu Dong** from Te Awamutu Intermediate with the project "Camo Vac"

CLASS 13 - Year 9-13 Senior Inventions and Technical Innovations sponsored by IPENZ

3rd: **Saskia van der Peet** with "SolarEd tape" from St Peter's School

2nd: **Charlie Lester Rosson** with "The post's perspective" from St Peter's School

1st: **Liam Henderson** from Hamilton Boys High School with "Magnetic plastic fantastic"

CLASS 14 - Year 7-8 Junior Scientific Wall Chart sponsored by ABA resources

3rd: **Hannah Leng** from Cambridge Middle School

2nd: **Sophie Gardiner** from Peachgrove Intermediate School

1st: **Hitanshu Rawat** from Peachgrove Intermediate School

CLASS 15 - Year 9-13 Senior Scientific Wall Chart sponsored by Education Perfect

3rd: Gabrielle Ou from Hillcrest High School

2nd: Dihini Ranmadugala from Hillcrest High School

1st: Kate Seager from Waikato Diocesan School for Girls

CLASS 16 - Year 9-13 Scientific Video sponsored by Education Perfect

Highly commended:

- **Daisy Bunting** from Waikato Diocesan School for Girls

3rd: Paris Eyeington from Berkley Normal Middle School

2nd: Meleena Redcliffe from Hillcrest High School

1st: Michelle Tiang from Waikato Diocesan School for Girls

CLASS 17 - Year 7-8 Observational drawings sponsored by WSTA

Highly commended:

- **Amelie Nicholls** from Matamata Intermediate
- **Max Robets** from Kimihia School

3rd: Maria Lee from Berkley Normal Middle School

2nd: Robin Webb-Elliott from Cambridge Middle School

1st: Abigail Blewden from Berkley Normal Middle School

CLASS 18 – Year 9-13 Observational drawings sponsored by Livestock Improvement Corporation

Highly commended:

- **Meixi Li** from Waikato Diocesan School for Girls
- **Ruby Lewin** from Waikato Diocesan School for Girls

3rd: Josephine Taylor from Cambridge High School

2nd: Ella Bealing from Hamilton Christian School

1st: Michelle Tiang from Waikato Diocesan School for Girls

CLASS 19 – Open Scientific Photography sponsored by Wintec

Highly commended:

- **Emelia Dobson** from Berkley Normal Middle School
- **Hannah Leng** from Cambridge Middle School
- **Kate Seager** from Waikato Diocesan School for Girls

3rd: Erin Butterfield from Ohaupo School

2nd: Grace Wisnewski from St Peter's School

1st: Zach Fitzgerald from Hillcrest High School

SPECIAL AWARDS

1. NIWA Special Award for an outstanding exhibit related to water and/or the atmosphere.

Chanel Morey and Madison Swap from St Peter's School with Bay Watch

2. Department of Conservation Special Award for an outstanding exhibit that relates to conservation of NZ flora or fauna.

Halley Aish from Fairfield Intermediate School with "Tuna in Rototuna"

3. NZ Statistical Association Special Award for the excellent application of statistical methods and reasoning.

Elina Karppinen with "Powerful prints" from Pirongia School

4. New Zealand Soil Science Society Special Award for an outstanding exhibit that relates to soil science.

Adam Nachowitz from Hillcrest High School with "Water retention and rate of percolation"

5. Waikato Regional Council Special Award for an excellent exhibit relating to our environment.

Jack Foley from St Peter's School with "Local stream, global dilemma"

6. NZ Baking Industry Research Trust Special Award for the best use of flour or bakery products in a food related project.

Sam Stewart with "Gluten Globbs" from Ohaupo School

7. New Zealand Institute of Agricultural Science (Waikato) Special Award for an excellent exhibit with an agricultural theme.

Tayla Stewart from St Peter's School with "Greener Pastures"

8. Dairy Goat Co-operative (DGC) Special Award for the best Year 7-8 Food Science & Technology exhibit.

Maya Oughton from Berkley Normal Middle School with "Mug Cakes"

9. New Zealand Institute of Food Science & Technology (NZIFST - (Waikato Branch))
Special Award for best Year 9-13 Food Science & Technology exhibit.

Charlisse Leger-Walker and Blake Hamilton with "Testy Tastebuds" from St Peter's School

10. Sociological Association of Aotearoa Special Award for the exhibit with the best use of sociological methods

Talia Nicol with "What effects our personality" from Waikato Diocesan School for Girls

11. McGowan Special Award – judges choice.

Liam Henderson from Hamilton Boys High School with "Magnetic Plastic Fantastic"

MAJOR AWARDS

1. LIC Trophy for the Best Living World exhibit

Amber Rowan- Sanders for "Social Hierarchies in Herds of Dairy Cattle" from St Peter's School

2. Hill Laboratories Trophy for the Best Material World exhibit

Timothy Evans from Peachgrove Intermediate with "Aftertaste"

3. Babbage Consultants Trophy for the Best Physical World exhibit

Chanel Morey and Madison Swap with "Bay Watch" from St Peter's School

4. DairyNZ Trophy for the Best Planet Earth and Beyond exhibit

Jack Foley with "Local stream, global dilemma" from St Peter's School

5. Education Perfect Award for Best Inventions and Technical Innovations exhibit

Cheng-yu Dong from Te Awamutu Intermediate with "Camo Vac"

6. University of Waikato Science Communication Award

Xanthe and Estella Wainui-Mackie with "Pathogenic pets" from St Josephs, Fairfield

Logan Hammerton from Pirongia School with "Growing Green Gold"

Noah Harvey with "Fly" from Hamilton Christian School

SUPREME AWARDS

2016 NIWA WORK EXPERIENCE SCHOLARSHIP. Additional to fair sponsorship NIWA is proud to offer The NIWA Work Experience Scholarship for a senior student that has excelled in presenting an environmental project in the fair. This scholarship provides **paid work experience** over the 2016/2017 summer break at NIWA Hamilton. The winning student will be given the unique opportunity to work alongside NIWA scientists working at the forefront of NIWA science

The winner of the NIWA Scholarship is **AMBER ROWAN-SANDERS** from St Peter's School

RUNNER UP IN FAIR receives:

\$600 cash award and trophy sponsored by NIWA and a ticket to attend the Kudos Awards

The **runner up** for 2016 is:

ALEKS APPERLEY with "Antibiotic Aspiration" from Te Awamutu College

BEST IN FAIR:

\$1000 cash award and trophy sponsored by NIWA and a ticket to attend the Kudos Awards

THE WINNER FOR THE BEST IN FAIR FOR 2016 IS:

AMBER ROWAN- SANDERS for "Social Hierarchies in Herds of Dairy Cattle" from St Peter's School

2016 NIWA SHIELD FOR BEST OVERALL SCHOOL

A new supreme award being introduced for the first time in 2014. This award aims to recognise the combined success of award winning students from within a school.

The winner is St Peter's School, Cambridge

SPONSORS

The organising committee wish to acknowledge the following organisations for their valued financial contributions in ensuring the success of the 2016 NIWA Waikato Regional Science & Technology Fair. Thanks must also go the schools and other organisations that have generously allowed the release of staff to form the judging team.

PLATINUM

National Institute of Water and Atmospheric Research (NIWA)

GOLD

Babbage Consultants
DairyNZ
Education Perfect
Hill Laboratories
Livestock Improvements Corporation
University of Waikato
WEL Network Trust

SILVER

Kiwanis Club of Westside Hamilton
IPENZ
Tatua Co-operative Dairy Company Ltd
SciPad
WINTEC
WSTA

BRONZE

ABA Resources
Department of Conservation
James and Wells
NZ Institute of Agricultural Sciences
NZ Institute of Chemistry

SPONSORS

Baking Research Trust
Dairy Goat Co-Operative NZ Ltd
Geoscience Society of NZ – Waikato Branch
NZ Society of Soil Science
NZ Statistical Association and Statistics NZ
Sociological Association of Aotearoa
Waikato Regional Council
NZ Institute of Food Science and Technology – Waikato Branch