

40th FONTERRA MANAWATU SCIENCE AND TECHNOLOGY FAIR 2014 PRIZE LIST

ART Section

3rd Place (art prize)	Imogen McCrae, Ross Intermediate
2nd Place (art prize)	Emily Rhodes-Robinson, PNINS
1st Place (art prize)	Jewel Arthur, PNINS

There were two sections for the Photography contest, the first a natural photo and the other acknowledging the theme expressed in a creative/enhanced manner.

Natural Photo

Highly commended (Certificate)	Gabi Harpur, Feilding Intermediate Ella Vickery, Feilding Intermediate
3rd Place (\$20 voucher)	Erika Elers, Feilding Intermediate
2nd Place (\$30 voucher)	Laura Pedley, Feilding Intermediate
1st Place (\$50 voucher)	Jude Wightman, Feilding Intermediate

Creative/Enhanced Photo

Highly commended (Certificate)	Alexandra Gibson, Ross Intermediate
3rd Place (\$20 voucher)	Jasmine Glentworth, PNINS
2nd Place (\$30 voucher)	Jasmine Glentworth, PNINS
1st Place (\$50 voucher)	Jayden Glentworth, Winchester School

SCIENCE Prizes: **Highly commended (Certificates)**

Name: Cairan Carroll, PNINS
Title: A Current Affair

Name: Phillip Prinsloo, Horowhenua
Title: Ruben's Curve

Name: Izaak Morrison, Cornerstone Christian School
Title: Bean Me Up

Name: Summer Wallace, Ross Intermediate
Title: Cat Catastrophe

Name: Nadun Palmada, PNBHS
Title: Not So Heavy Now

Name: Stephanie Huang, PNGHS
Title: Mung Beans

Name: Jeshuan Redshaw & Luke Rusden, Cornerstone Christian School
Title: Boil Bending Wood

Name: Charlotte Brenkley, PNGHS
Title: Feeling the Heat

Name: Marie Poff, PNGHS
Title: A Rad-ish Experiment on Salinity

Name: Chloe Hunt, PNINS
Title: Was that an Earthquake?

Distinction Prizes (\$60 book vouchers)

Name: Luke Scott, PNINS
Title: Rock the Cradle

Name: Ajay Bansall, PNINS
Title: The Mystery of Particles

Name: Braydon Schroder, PNBHS
Title: The *Daphnia pulex*'s metabolic frequency

Name: Cody Larsen, PNINS
Title: Nitrate Poisoning

Name: Olivia Brookie, Cornerstone Christian School
Title: It's Cheese - Go figure

Name: William Morgan, PNINS
Title: Bee My Honey

Name: Xinning Gong, PNINS
Title: Colour Confusion

Name: Shanese Sproull, Cornerstone Christian School
Title: Stream Life

Name: Emma Banks, Ross Intermediate
Title: Walk a Mile in Your Socks

Name: Grace Mainwaring, PNINS
Title: Favourite Flavours for Feathered Friends

Name: Sarah Royds, PNINS
Title: Catching Nitrogen Runoff

Name: Evageline Taylor-Maclean, Cornerstone Christian School
Title: Nail Polish Remover

High Distinction Prizes (\$100 cheques)

Name: Christie Peterson, PNINS
Title: Competition Between Male & Female Twin Lambs

Name: Fergus Lloyd, PNINS
Title: Good Foundation

Name: Hannah Sutherland-Smith, PNINS
Title: Killer Trees

Name: Joshua Ellingham, Ross Intermediate
Title: Swish

Name: Jasmine Glentworth, PNINS
Title: Winning Waterways

Name: Zoe Smith, Carncott
Title: Do Atmospheric Temperatures Effect the Visibility of Stars in the Night Sky?

Name: Ted Trewick, Awatapu College
Title: Standardised Koura

Name: Ben Limsowtin, Feilding Intermediate School
Title: How to Stop Your Robot's Arms From Coming Off

Name: Tharushi Bowatte, PNGHS
Title: Eco-Innovation for Nitrogen Fixation

Name: Emma Patrick & Claire Shi, PNGHS
Title: Mitey Bees

TECHNOLOGY Prizes:

Highly Commended (Certificates)

Name: Eliana Turu, PNINS
Title: Ka Pai Kai

Name: Charlotte McKinlay, Carncot
Title: Equine Eye Savers

Name: Matt Tait, PNINS
Title: Yeah / Nah Recycling

Distinction Prizes (\$60 book vouchers)

Name: Samuel Phillips, PNINS
Title: Top Grip

Name: Ayesha Satya, Ross Intermediate
Title: F.L.L.B

Name: Rachel McCracken, Cornerstone Christian School
Title: Keep Out

High Distinction Prizes (\$100)

Name: Zoe Glentworth, PNGHS
Title: Safe Sunscreen Solution

Name: Lily Tongs, Cornerstone Christian School
Title: Bubble Buster

Name: Ayana Sue, Carncot
Title: INZ3ct Repellents

Name: Lily Griffin, PNINS
Title: Fizzy Pasteurised Permeate

Junior Section Science and Technology Prizes

Highly Commended (Pack of Goodies from UCOL & Jaycar)

Name: Jonty Maunsell, Hadlow School

Title: Wooden vs Dirt BMX Jump

Name: Darrock George-Bodle, Hadlow School

Title: Does Gender &/or Age Influence How People Perceive Illusionary Images?

Name: Sophie Renton, Hadlow School

Title: Shooting Stars

Name: Sophie Hall, Ashley McIlhatton & Aneah Knight, Bunnythorpe School

Title: Baking Extravaganza

Name: Loulou McNelly, Rosemary King & Sophie Hart, Hadlow School

Title: What Do Different Milks do to Cupcakes?

Name: Ben John, Hadlow School

Title: Clean-o-matic

3rd Prize (Pack of goodies from UCOL + an Aqua Pod Bottle Launcher)

Name: Scott Grady, College St Normal School

Title: Gob Stopper Gamble

2nd Prize (Pack of goodies from UCOL + a 6'n' 1 Educational Solar kit & Double Blade Remote Control Viper Helicopter)

Name: Maddex Anderson, Hadlow School

Title: More Money

1st Prize (Pack of goodies from UCOL + an Amazing Eco Scientific Kit & a \$100 Digitech Microscope Camera)

Name: Ihaia Mullholland, Central Normal School

Title: The Elasticity of Loom Bands

Youth Science and Technology Prizes

(\$30 Voucher + Fonterra goodie bag)

Name: Zoe Glentworth,
Title: Safe Sunscreen Solution

Name: Ajay Bansal, PNINS
Title: The Mystery of Particles

Name: Catherine Orr, PNINS
Title: What weighs more? Feather's or lead

Name: Jasmine Glentworth, PNINS
Title: Winning Waterways

Name: Maddison McQueen-Davies, PNINS
Title: 5 + a Day the Ice-cream Way

Name: Toa Carney, PNINS
Title: Arduino - Moody Words

Name: Ayana Sue, Carncot
Title: INZ3ct Repellents

Name: Ayesha Satya, Ross Intermediate
Title: F.L.L.B

Name: Marie Poff, PNGHS
Title: A Rad-ish Experiment on Salinity

Name: Stephanie Huang, PNGHS
Title: Mung Beans

Science Encouragement Prizes

(\$50 + Fonterra goodie Bag including lab coat and safety glasses)

Name: Jeshuan Redshaw & Luke Rusden, Cornerstone Christian School
Title: Boil Bending Wood

Name: Phillip Prinsloo, Horowhenua College
Title: Ruben's Curve

Name: Callum Walcroft, Ashhurst School
Title: Battle of the Words

Name: Zain Ali, Carncot
Title: The Influence of Geometry on the Strength of Trusses

Name: Matthew Cao, Ashhurst School
Title: The Power of Water

Name: Izaak Morrison, Cornerstone Christian School
Title: Bean Me Up

Name: Phoebe McGregor, Cornerstone Christian School
Title: Pills for Plants

Name: Caitlin (Kate-lyn) Smith, Ross Intermediate
Title: Who's Poos Should You Use?

Name: Emma Stein, Carncot
Title: Creature Catcher

Name: Charlotte McKinlay, Carncot
Title: Equine Eye Savers

SPECIAL PRIZES

AgResearch Prizes (SILVER sponsor)

For research thoroughness and understanding of a topic relating to Agriculture
(Internships)

Name: Sarah Royds, PNINS

Title: Catching Nitrogen Runoff

Name: Shanese Sproull, Cornerstone

Title: Streamline

(Internships + \$200)

Name: Jasmine Glentworth, PNINS

Title: Winning Waterways

Name: Christie Peterson, PNINS

Title: Competition Between Male & Female Twin Lambs

Name: Minushika Punchihewa, PNGHS

Title: Deciphering the Ambiguities of *Trifolium ambiguum*

Name: Kyle Robertson, PNBHS

Title: Pressure's On!

New Zealand Institute of Agricultural and Horticultural Science Prizes

(\$50 vouchers)

Science investigation and/or technology project that relate to:

(1) Agricultural Science,

Name: Minushika Punchihewa, PNGHS

Title: Deciphering the Ambiguities of *Trillium ambiguum*

(2) Horticulture,

Name: Hannah Sutherland-Smith, PNINS

Title: Killer Trees

(3) Animal Science

Name: Christie Peterson, PNINS

Title: Competition Between Male & Female Twin Lambs

(4) Soil Science

Name: Marie Poff, PNGHS

Title: A Rad-ish Experiment on Salinity

Bio Commence Centre - BCC

(\$200 voucher)

For an outstanding technological project

Name: Tom Kirk, Monrad Intermediate

Title: Passing Mate

Beta Solution Ltd Prizes

For the best projects of an electronics nature

3rd place (\$35.00 voucher)

Name: Toa Carney, PNINS

Title: Arduino-Moody Words

2nd place (\$65.00 voucher)

Name: Daniel McCracken, Cornerstone Christian School

Title: Info App

1st place (\$100.00 voucher)

Name: Matt Tait, PNINS

Title: Yeah / Nah Recycling

Central Association of Science Educators Prizes

For an intermediate and secondary student who creates a project that has educational applications

(Intermediate \$100)

Name: Chloe Hunt, PNINS

Title: Was that an Earthquake?

(Secondary \$100)

Name: Phillip Prinsloo, Horowhenua College

Title: [Ruben's Curve](#)

MSTF-CASE Approval Prize

(\$50 cheque)

For a project that has shown thoroughness while adhering to the correct ethical and safety protocols

Name: Charlotte McKinlay, Carncot

Title: Equine Eye Savers

Australian and New Zealand Council for the Care of Animals in Research and Teaching

(\$50 cheque)

For correct protocol through animal ethics committee, human care of the animals involved

Name: Charlotte McKinlay, Carncot

Title: Equine Eye Savers

Landcare Research Environment Prize and Internship

For the best intermediate and secondary exhibits featuring an environmental aspect. This exhibit uses both science and technology to develop a real solution to a real problem in the outdoors.

Intermediate (\$75 cheque + internship)

Name: Sarah Royds, PNINS

Title: Catching Nitrogen Runoff

Secondary (\$75 cheque + internship)

Name: Marie Poff, PNGHS

Title: A Rad-ish Experiment on Salinity

New Zealand Society of Soil Science Prize

(Book)

Book for the best soil related project

Name: Nadun Palmada, PNBHS

Title: Not So Heavy Now

Manawatu Branch Geoscience Society of NZ

(Book)

Science investigations related to geology and mineralogy

Name: Fergus Lloyd, PNINS

Title: Good Foundation

Massey University, Institute of Food, Nutrition and Human Health – Food and Nutrition Prize

(\$75 cheque)

For an exhibit that best contributes to understanding of the value of food and its nutritional value for healthy well-being

Name: Cooper Hamilton, Feilding Intermediate

Title: Sharpen Up

Massey University, Institute of Food, Nutrition and Human Health - Human Health Prize

For an exhibit that best contributes to understanding of the value of the benefit of keeping yourself as healthy as possible

Highly Commended

Name: Darroch George-Bodle, Hadlow School

Title: Does Gender &/or Age Influence How People Perceive Illusionary Images?

1st Prize (\$75 cheque)!

Name: Jacob McLaughlin, PNINS

Title: Choco Aid

New Zealand Baking Industry Research Trust Prizes

For the best investigations in some aspect of cereal and flour usage

2nd Place (\$50 cheque)

Name: Loulou McNelly, Rosemary King & Sophie Hart, Hadlow School

Title: What do Different Milks do to Cupcakes?

1st Place (\$50 cheque + book)

Name: Ashley McIlhatton, Sophie Hill, & Aneah Knight, Bunnythorpe School

Title: Baking Extravaganza

New Zealand Institute of Food Science and Technology Prizes

For the best exhibit in this area

Highly Commended + \$50 cheque

Name: Dominique Rankin, PNINS

Title: Cookie Detective

Name: William Morgan, PNINS

Title: Bee My Honey

1st = (\$100 cheque each and trophy)

Name: Madison McQueen-Davies, PNINS

Title: 5 + a Day the Ice-cream Way

Name: Olivia Brookie, Cornerstone Christian School

Title: It's Cheese - Go Figure

Massey University, Institute of Fundamental Sciences – Chemistry Prize

For the best exhibit involving chemistry

Highly Commended (\$50 cheque)

Name: Hannah Sutherland-Smith, PNINS

Title: Killer Trees

1st Place (\$100 cheque)

Name: Thilliner Ariyaratne, PNINS!

Title: Investigation into The Trends in the Leaching of Nitrate

Massey University, Institute of Fundamental Sciences–Physics and Biophysics Prize

For the best exhibit relating to the understanding of the principles of Physics

Highly Commended (\$50 cheque)

Name: Ciaran Carroll, PNINS

Title: A Current Affair

1st Place \$100 cheque

Name: Phillip Prinsloo, Horowhenua College

Title: Ruben's Curve

Massey University, Institute of Fundamental Sciences - Statistics Prize

For the best exhibit relating to the understanding of the principles of Statistics

Highly Commended (\$50 cheque)

Name: Waldo Dreyer, PNINS

Title: Size Matters

1st Place (\$100 cheque)

Name: Kyle Robertson, PNBHS

Title: Pressure's On!

Massey University, Institute of Fundamental Sciences - Biology Prize

For the best exhibit relating to the understanding of biology

1st Place \$100 cheque

Name: Rachel Taylor, PNGHS

Title: Weedy or Not

Statistics NZ Prize

For a project involving statistics

Highly commended

Name: Katie Herron, PNINS

Title: On the Surface of Things

1st = \$20 voucher each

Name: Christie Petterson, PNINS

Title: Competition Between Male & Female Lambs

Name: Max Zander, Ross Intermediate

Title: Kicking Around

New Zealand Statistical Association Prizes

For the best application of statistical methods and reasoning

Highly Commended (Certificate)

Name: Emily MacKay, Cornerstone Christian School!

Title: What's the Time?

2nd Place (\$25 voucher)

Name: Tharushi Bowatte, PNGHS

Title: Eco-Innovation for Nitrogen Fixation

1st Place (\$40 voucher)

Name: Emma Patrick & Claire Shi, PNGHS

Title: Mitey Bees

Massey University, Institute of Agriculture and Environment - Ecology Group Prizes

For the best exhibits promoting conservation and native biodiversity

Ecology (\$75 cheque)

Name: Emma Patrick & Claire Shi, PNGHS

Title: Mitey Bees

Conservation (\$75 cheque)

Name: Grace Mainwaring, PNINS

Title: Favourite Flavours for Feathered Friends

Massey University, Institute of Agriculture and Environment - Land Based Industries Prizes

For the best intermediate and secondary soil, plant, animal exhibits

Intermediate (\$75 cheque)

Name: Emma Stein, Carncot

Title: Creature Catcher

Secondary (\$75 cheque)

Name: Zoe Glentworth, PNGHS

Title: Safe Sunscreen Solution

Massey University, School of Engineering and Advanced Technology Prize

For an outstanding exhibit demonstrating engineering principles

(\$100 book voucher)

Name: Nadun Palmada, PNBHS

Title: Not so Heavy Now

Massey University Internship

For a project that shows excellence in their research, science understanding and exceptional promise for a career in the Sciences

Name: Kyle Robertson, PNBHS

Title: Pressure's On!

Institute of Professional Engineers of New Zealand (IPENZ) Manawatu Branch Prizes

Science or technology projects that illustrate how engineering is considered as the development of a concept right through to detailed design and construction

Highly Commended (certificate)

Name: Chloe Grapetin, Cornerstone Christian School

Title: The Shhhhweet Sound of Music

1st place (\$50 voucher)

Name: Charlotte Jewell, Feilding Intermediate

Title: What a Waste

New Zealand Institute of Chemistry - Education Trust Prize

For the best exhibit relating to chemical principles

Highly Commended (Certificate)

Name: Danielle Fonotia, PNINS

Title: DDD

1st place (\$150 cheque)

Name: Nadun Palmada, PNBHS

Title: Not so Heavy Now

The Science Centre Inc. Prize

Science investigation and/or technology project that best displays the curiosity and ingenuity of the young investigator

Runner Up (\$25 cheque)

Name: Fergus Lloyd, PNINS

Title: Good Foundation

Winner (\$75 cheque)

Name: Ciaran Carroll, PNINS

Title: A Current Affair

UCOL Trades and Technology Prizes (\$25 each)

For the best project involving carpentry or wood construction

Name: Zoe Croton, PNINS

Title: Earthquake Engineering

For the best electrical project

Name: Ciaran Carroll, PNINS

Title: A Current Affair

For the best automotive project

Name: Jeremy Wapp, PNINS

Title: Hybrid vs Petrol

For the best project innovative project

Name: Toa Carney, PNINS

Title: Arduino - Moody Words

For the best project involving metal construction

Name: Logan Milne, Monrad Intermediate

Title: Will it Rust or Not?

For the project involving farming

Name: Kyle Robertson, PNBHS

Title: Pressure's On!

UCOL Faculty of Health Science Prizes (\$25 each)

National Diploma in Science Prize for the best laboratory techniques demonstrated.

Name: Thilliner Ariyaratne, PNINS

Title: Investigation into the Trends in the Leaching of Nitrate

National Diploma in Science Prize for the best graphical display of results

Name: Jasmine Glentworth, PNINS

Title: Winning Waterways

Diploma in Vet Nursing Prize for the best project involving care of animals

Name: Charlotte McKinlay, Carncot

Title: Equine Eye Savers

Diploma in Vet Nursing Prize for the best project involving animal behaviour, physiology or anatomy.

Name: Christie Petterson, PNINS

Title: Competition Between Male & Female Twin Lambs

Certificate in Science and Health Prize for the best project involving health.

Name: Zoe Glentworth, PNGHS

Title: Safe Sunscreen Solution

UCOL Certificate in Science and Health Prize for the best project for applying science to everyday life.

Name: Ayana Sue, Carncot

Title: INZ3ct Repellents

Langley Memorial Prize – in memory of Keryn and Callum

For creativity, passion and commitment in Science or Technology

(\$75 book voucher + Trophy)

Name: Xinning Gong, PNINS

Title: Colour Confusion

Soroptimist Dame Ella Campbell Award

(\$100 Cheque)

For a project involving plant science

Name: Rachel Taylor, PNGHS

Title: Weedy or Not

Te Reo Māori Me Te Pūtaiao Prize - He Kupenga Hao I Te Reo Māori

(\$200 cheque)

For an exhibit presented and interviewed in Te Reo Māori at all levels

Name: Jennifer Moeahu & Sophie McIlhatton, Bunnythorpe

Title: Aotearoa Green

Mina McKenzie Indigenous Science Prize

(\$100 voucher)

For the best investigation of some aspect of science related to indigenous cultures

Name: Ayana Sue, Carncot

Title: INZ3ct Repellents

The S+ART Trust Award

For a project that involves or shows potential for the combination of Science, Technology and Art

Intermediate (\$150)

Name: Charlotte Mckinlay, Carncot

Title: Equine Eye Savers

Secondary (\$150)

Name: Phillip Prinsloo, Horowhenua

Title: Ruben's Curve

DairyNZ Prizes

These prizes are awarded for projects related to a field of interest to the Agricultural Sector **(\$100)**

Name: Kyle Robertson, PNBHS
Title: Pressure's On!

Name: Jasmine Glentworth, PNINS
Title: Winning Waterways

Name: Sarah Royds, PNINS
Title: Catching Nitrogen Runoff

Name: Poppy Leney, Carncot
Title: Death by Salt

Dr Gregor Yeates Memorial Prize - presented in memory of Dr Gregor Yeates, FRSNZ

For an investigation relating to Soil Biota
(\$100 Voucher)

Name: Brittany Adams, PNGHS
Title: Slater and Soil Moisture

Royal Society of New Zealand - Manawatu Branch Inc. Prizes

For an outstanding exhibit that demonstrates strong potential for the student's future in science or technology

Science (\$150)

Name: Fergus Lloyd, PNINS
Title: Good Foundation

Technology (\$150)

Name: Maia Persson, PNINS
Title: Scented Thoughts

Fonterra BEST EXHIBIT IN FAIR –RUNNER UP **(\$250 each + Internship at Fonterra)**

Science

Title: Deciphering the Ambiguities of *Trifolium ambiguum*

Aim: To investigate polyploidy in *Trifolium ambiguum*

Name: Minushika Punchihewa, PNGHS

Technology

Title: Passing Mate

Aim: To design a device to assist with ball handling

Name: Tom Kirk, Monrad Intermediate

Fonterra BEST EXHIBIT IN FAIR – PREMIER PRIZE: **(\$500 each & internship at Fonterra)**

Science

Title: Pressure's On!

Aim: To evaluate the effect of compaction caused by cattle trampling on soil

Name: Kyle Robertson, PNBHS

Technology

Title: 5 + a Day the Ice-cream Way

Aim: To make a healthy ice-cream

Name: Maddison McQueen-Davies, PNINS