

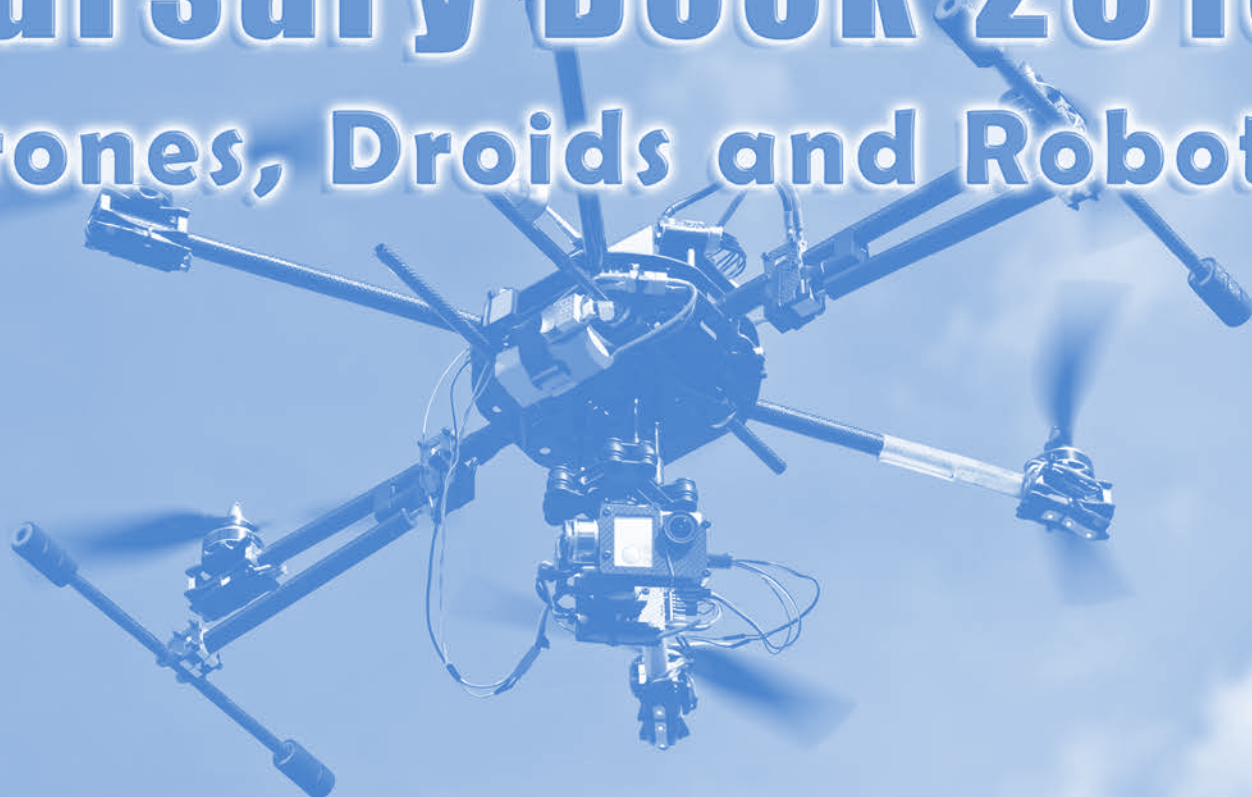


SCIENCE TALENT SEARCH

65

Bursary Book 2016

Drones, Droids and Robots



Science Victoria
Science Teachers' Association of Victoria Inc.



About the Science Talent Search

The first Science Talent Search was conducted and sponsored by the Science Teachers' Association of Victoria Inc., in 1952. The then Secretary, Mr Hugh McKnight, invited students from all secondary schools to submit a 1000 word report titled 'My Science Project'.

A special judging panel of prominent Scientists interviewed the entrants and awarded 17 bursaries, totalling £380.00 (\$760.00). There were two major bursaries of £100.00 (\$200.00) and £60.00 (\$120.00) respectively. Five intermediate bursaries of £25.00 (\$50.00) each with ten other awards, seven worth £10.00 (\$20.00) and three worth £5.00 (\$10.00).

Over the past 65 years, the Science Talent Search has undergone much change. Currently, there are ten Sections in which students can enter: Computer Programs, Games, Science Photography, Posters and Scientific Wall Charts, Working Models, Inventions, Experimental Research, Creative Writing, Video Productions and Class Experimental Research Project for primary students.

The Search is open to all students enrolled in Foundation through to Year 12 in both Government and non-Government Schools.

The Science Talent Search has three broad aims:

1. To stimulate an ongoing interest in the serious study of Sciences by:
 - a) encouraging independent self-motivated project work amongst students of science;
 - b) giving students the opportunity to communicate their achievements to a wider audience;
 - c) according recognition of effort and achievement for their scientific enterprise.
2. To promote the direct involvement of the students in the process of science and its communication.
3. To give the public at large an opportunity to see the quality of work being achieved in Science, by both primary and post primary students.

Some interesting statistics about Science Talent Search

	2011	2012	2013	2014	2015	2016
Total number of entries	1892	1925	1990	2102	2054	2154
Total number of students entered	2644	2667	2874	3002	2854	3089
Total number of class entries	11	11	15	17	14	17
Total number of bursaries awarded	554	649	584	603	592	614
Total sponsorship for bursary awards	\$30,672	\$32,512	\$32,519	\$35,602	\$29,932	\$42,924
Number of schools entered	143	144	149	158	153	153

Distribution of Student Awards by Division

	2011	2012	2013	2014	2015	2016
Lower Primary (P-2)	186	215	182	182	118	142
Middle Primary (3-4)	-	-	-	-	229	293
Upper Primary (5-6)	392	362	407	370	301	457
Junior (7-8)	461	500	525	485	502	629
Intermediate (9-10)	162	152	136	191	185	259
Open (11-12)	10	11	17	20	17	18
Totals	1,211	1240	1267	1248	1352	1798

Awards included in this summary are Major, Minor and Merit. Merit Awards are not a Financial Bursary.

A more comprehensive report of this year's Science Talent Search will be published in *Lab Talk* and *Let's Find Out* - the journals of the Science Teachers' Association of Victoria Inc. If you are interested in entering next year's Science Talent Search, ask your Science Teacher for a copy of the 2017 STS Handbook (available Term 1, 2017) or go to our website: www.sciencevictoria.com.au/sts/

STS Exhibition & Presentation Day Program



- The Agora Theatre and the Agora Cinema are located in the Agora Complex
- Eastern Lecture Theatre (5) is located in the vicinity of the Agora Complex
- The Odeon is in Union Hall
- Signs will indicate directions to Ceremony Venues and information will also be given at the Opening Ceremony.

Monday 24 October 2016

8.30am to 10.00am ONLY	Registration in the foyer of Union Hall
9.30am	Exhibition open to invited guests, press and public in the Union Hall
10.00am – 10.30am Union Hall	Official Opening of the Exhibition and Presentation of School Awards Pro Vice-Chancellor Professor Graham Schaffer School of Science, Health and Engineering, La Trobe University
11.15am – 12.15pm Agora Cinema Agora Theatre Eastern Lecture Theatre 5 The Odeon	Presentation of Lower Primary and Primary Awards (Foundation to Year 6) Sections: Creative Writing, Computer Programs, Video Productions (DVD) Presenter: Dr Christine Redman, The University of Melbourne Sections: Experimental Research, Inventions, Models, Games Presenter: Professor Roger Lumley, La Trobe University Section: Class Experimental Research Projects Presenter: Mr Ian Christie, Victorian Space Science Education Centre Sections: Science Photography, Posters and Scientific Wall Charts Presenter: Ms Jayne Boon, Aitken College
12.30pm – 1.30pm Agora Cinema Agora Theatre Eastern Lecture Theatre 5 The Odeon	Presentation of Junior, Intermediate and Open Awards (Years 7 to 12) Sections: Inventions, Working Models, Science Photography Presenter: Dr James Mullins, Deakin University Sections: Experimental Research, Computer Programs Presenter: Dr Kim Plummer, La Trobe University Sections: Creative Writing, Video Productions (DVD) Presenter: Ms Somya Mehra, The University of Melbourne Sections: Games, Posters and Scientific Wall Charts Presenter: Mr Adam Poy, The Victoria Police Forensic Services Centre

The Presentation of Awards will be completed by 1.30pm.

The above Presenters have volunteered to be part of the Science Talent Search Exhibition and Presentation Day and contribute to the success of this day. The Students, Teachers and the Science Talent Search Committee would like to acknowledge their commitment and involvement in science education.

Please note: The Presenters listed were correct at the time of publication. Changes may be necessary due to unforeseen circumstances.

Bursary book sponsored by

The BHP Billiton Science and Engineering Awards are a partnership between BHP Billiton, CSIRO and the Australian Science Teachers Association (ASTA).
The awards are sponsored by the BHP Billiton Foundation and managed by CSIRO.



STS Exhibition & Presentation Day Sponsor



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*Excellence in Research for Australia (ERA), 2015
#Hobson's 2015 Good University's Guide

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In Appreciation

The Science Teachers' Association of Victoria Inc. and the STS Management of the 65th Science Talent Search are grateful to the organisations who have given generous support to this year's competition, to the STS Committee for their enthusiastic and positive approach and to Victoria Dillon, together with the staff of La Trobe University, for their co-operation and organisation of the Science Talent Search Exhibition and Presentation Day at La Trobe University.

We would also like to extend our appreciation to Methodist Ladies' College, Wesley College and Parade College for the use of their facilities and assistance during the judging of Posters, Photography, Videos, Research, Games, Computer Programs, Models, Inventions and Class Experimental Research Projects.

In particular we also thank Penny Tayler (Methodist Ladies' College), Grant Eyles (Wesley College) and Edison Shamoail (Parade College) for their work and support co-ordinating operations at the judging venues.

Finally a special thanks to all the teachers who volunteered to judge the many projects received. The judges are listed at the back of this Bursary Book.

The STS Committee

The STS Management extend their thanks and appreciation to the STS Committee members who worked diligently throughout the year to ensure the competition ran smoothly. Committee members are listed on page 48.

STAV Business Centre

The STS Committee would like to express its appreciation to the STAV Business Centre for their cooperation, understanding and assistance with the organisation of STS throughout the year. They have all given time willingly and have maintained their support for STS.

A very special thank you

David Trotter has once again worked tirelessly on the STS databases. David's expertise, persistence and unwavering support for STS is greatly appreciated.

A very special thank you

Janice Teng has once again worked tirelessly on this years STS. This support for STS is greatly appreciated.

School Awards

The Peter Craig School Awards

Lyndale Greens Primary School

Sponsored by STAV Publishing

Scotch College - Junior

Sponsored by STAV Publishing

Cheltenham Secondary College

Sponsored by STAV Publishing

Fintona Girls' School - Senior Secondary

Sponsored by STAV Publishing

The Hugh McKnight Encouragement Awards

Clifton Hill Primary School

Sponsored by The BHP Billiton Science and Engineering Awards, managed by CSIRO

Melbourne Girls' Grammar - Morris Hall

Sponsored by The BHP Billiton Science and Engineering Awards, managed by CSIRO

Gleneagles Secondary College

Sponsored by The BHP Billiton Science and Engineering Awards, managed by CSIRO

Methodist Ladies' College - Senior School

Sponsored by The BHP Billiton Science and Engineering Awards, managed by CSIRO



Creative Writing - Lower Primary

Major Bursary - \$35

Name	School	Project Title	Sponsor
Paris Kalogerakis	Doncaster Gardens Primary School	Elex The Robonaut To The Rescue	Australian Skeptics
Kate Ong	Serpell Primary School	The Best Robot Ever!	Deakin University: Faculty of Science, Engineering & Built Environment
Maisie Henson	Serpell Primary School	The Best Robot Ever!	Don Hyatt
Orla Lee	Melbourne Girls Grammar School - Morris Hall	The Best Robot Ever!	Independent Primary School Heads of Australia

Minor Bursary - \$25

Name	School	Project Title	Sponsor
Swaroj Kartha	Lyndale Greens Primary School	The Best Robot Ever!	Ken Greateorex
Malinda McGifford	Lyndale Greens Primary School	The Best Robot Ever!	Monash University - Faculty of Engineering and Information Technology
Chelsea Au	Doncaster Gardens Primary School	The Best Robot Ever!	Quantum Victoria
India Atkinson	Methodist Ladies' College - Junior School	Help Me: I want to be a Rock Star!	Minerals Council of Australia (Victorian Division)
Jamin Ho	Scotch College - Junior	The Best Robot Ever!	Swinburne University of Technology
Henry Hayward	Scotch College - Junior	The Best Robot Ever!	Independent Primary School Heads of Australia
Arwen Hughes	Great Ryrie Primary School	The Best Robot Ever!	The Field Naturalists Club Of Victoria Inc.
Taylor Wong	Serpell Primary School	I'm an android... My name is Timmy	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Mark Anthony Birchall	Serpell Primary School	The Best Robot Ever!	Vaisala Pty Ltd
Samantha Harianto	Serpell Primary School	Help Me...	Vaisala Pty Ltd

Video Productions - Lower Primary

Major Bursary - \$40

Name	School	Project Title	Sponsor
Luca Karvelas	Fitzroy North Primary School	Everyday Drone	Electric Energy Society of Australia Inc.

Video Productions - Lower Primary

Minor Bursary - \$30

Name	School	Project Title	Sponsor
Lucy Williams	Fitzroy North Primary School	Tiny Robots Doing Amazing Things	Electric Energy Society of Australia Inc.
Sophie Holt-Ye	Serpell Primary School	Gyroscopes	The Royal Society of Victoria Inc.

Creative Writing - Middle Primary

Major Bursary - \$40

Name	School	Project Title	Sponsor
Isaac Itescu	Mount Scopus Memorial College (SFPS)	Take Your Marks, Get Set ...	Independent Primary School Heads of Australia
Stamos Kalogerakis	Doncaster Gardens Primary School	Max The Medibot	Victoria Teachers Mutual Bank
Anita Ella Birchall	Serpell Primary School	Help Me...	Yakult Australia Pty Ltd
Megan Phoon	Glendal Primary School	The Cyborg Olympics	Victoria Teachers Mutual Bank
Raistlin Chan	Glendal Primary School	Help Me..	Yakult Australia Pty Ltd

Agora Cinema: 11.15am – 12.15pm

Creative Writing - Middle Primary

Minor Bursary - \$30

Name	School	Project Title	Sponsor
Shraddha Kapadia	Lyndale Greens Primary School	The Best Robot Ever!	Australian Skeptics
Tavleen Kaur	Lyndale Greens Primary School	The Best Robot Ever!	Deakin University: Faculty of Science, Engineering & Built Environment
Wasemee Kingston Mia Tan	Solway Primary School	The Best Robot Ever!	Ken Greateorex
Alexia Romanovski	Rosanna Golf Links Primary School	The Best Robot Ever!	Mordi Skeptics
Maddie Henson	Serpell Primary School	The Best Robot Ever!	Quantum Victoria
Olivia Kwei	Serpell Primary School	Help Me... Building TecnoGecko with Biomimicry	Australian Skeptics
Nethumlee Thota Hewage	Good News Lutheran College - Junior School	Help Me...	Independent Primary School Heads of Australia
Ailyn Cook	Firbank Grammar School - Turner House`	The best robot ever - a robot in my house	Vaisala Pty Ltd
Masato Mizumoto	Essendon North Primary School	Help Me ...	Parade College - Bundoora and Preston
Joel Tan	Glendal Primary School	Help Me..	Victoria Teachers Mutual Bank

Computer Programs - Middle Primary

Major Bursary - \$45

Name	School	Project Title	Sponsor
Witter Onggara	Balwyn Primary School	Drones, Droids and Robots	Vaisala Pty Ltd
James Ghaly	Holy Rosary School	Coding	Catholic Education Melbourne

Computer Programs - Middle Primary

Minor Bursary - \$35

Name	School	Project Title	Sponsor
David Bendschneider	Scotch College - Junior	Kaboom!	Independent Primary School Heads of Australia
Dylan Starmans	Rosanna Golf Links	Robot Builder	Quantum Victoria
Matthew Bocquet Tama Murphy-Schmeder	Flemington Primary School	Box Run	Victoria Teachers Mutual Bank

Video Productions - Middle Primary

Major Bursary - \$45

Name	School	Project Title	Sponsor
Tehmi Harding	Kerrimuir Primary School	What Makes Super Egg Super?	Biology Teachers' Network Inc.

Video Productions - Middle Primary

Minor Bursary - \$35

Name	School	Project Title	Sponsor
Max Dendle Phillip Thomas	Solway Primary School	We Are Robots	The Royal Society of Victoria Inc
Olivia Williams	Clifton Hill Primary School	Science in Everyday Life	Victoria University
Issy Corcoran Imogen Labbett	Flemington Primary School	Mechanical Wonders	Victoria University



Creative Writing - Upper Primary

Major Bursary - \$45

Name	School	Project Title	Sponsor
Holly Ledwich	Eltham College - Primary	Help Me...	Australian Skeptics
Mannix Vincenzino	Heathdale Christian College - Primary	The Best Robot Ever!	Victoria University
Samudra Pathmasiri	2016 STAV Entry 2	Help Me...	Vaisala Pty Ltd
Sam Nielsen	Haileybury - Berwick Campus	The Department of Fisheries: Order 99	Biology Teachers' Network Inc.
Brandon Lau	Haileybury - Berwick Campus	I am an Android. My name is...	The Royal Society of Victoria Inc
Isabella Greco	Lowther Hall Anglican Grammar School	Help Me.....	Victoria Teachers Mutual Bank
Thomas Galinas	Brighton Grammar School - Junior School	Help Me	Vaisala Pty Ltd
Shaun Tay	Haileybury - Newlands Campus	Help me...	The Royal Society of Victoria Inc
Chloe Lau	Glendal Primary School	The Cyborg Olympics	The University of Melbourne - School of Physics

Creative Writing - Upper Primary

Minor Bursary - \$35

Name	School	Project Title	Sponsor
Genevieve Retallick	Kerrimuir Primary School	Help Me	Australian Skeptics
Caitlyn Roberts Lily Wade	Eltham East Primary School	The best robot ever....	Parade College - Bundoora and Preston
Lauren Loh	Lab Rats Science Club Primary	Help Me...	Victoria Teachers Mutual Bank
Arkash Jayasinghe	Haileybury - Berwick Campus	Cyborg Olympics	The Royal Society of Victoria Inc
Grishanth Pillai	Haileybury - Berwick Campus	Cyborg Olympics	Victoria Teachers Mutual Bank
Emily Hiew	Serpell Primary School	The Best Robot Ever!	Quantum Victoria
Ella Henson	Serpell Primary School	Help Me I'm being abducted by a robot!	Australian Skeptics
Fiona Monch	Mentone Girls' Grammar School - Junior Campus	Help me, I've lost my droid rabbit.	Independent Primary School Heads of Australia
Caleb Lipman	Rosanna Golf Links Primary School	Help me...	STELR Project
Harry Watson	Camberwell Grammar School - Primary	Help Me...	The Royal Society of Victoria Inc
Talia Walker	Rosanna Golf Links Primary School	Cyborg Olympics	The University of Melbourne - School of Physics
Jem O'Toole	Alphington Grammar School	Sleepy Time	Independent Primary School Heads of Australia

Computer Programs - Upper Primary

Major Bursary - \$50

Name	School	Project Title	Sponsor
Sanjay Ravichandran	Lab Rats Science Club Primary	Food Allergy Alert - A study of current products in market and development of Ap	Australian Society for Biochemistry & Molecular Biology
Bohdi Wain	Kangaroo Ground Primary School	How robots work	Monash University - Faculty of Engineering and Information Technology

Computer Programs - Upper Primary

Minor Bursary - \$40

Name	School	Project Title	Sponsor
Millie Craven	Eltham College - Primary	Gumdrop Adventures	Australian Society for Biochemistry & Molecular Biology
Daniel Arnould	Haileybury - Berwick Campus	Drone World	Independent Primary School Heads of Australia
Marcus Beyer	Haileybury - Newlands Campus	The Hunt	Yakult Australia Pty Ltd

Agora Cinema: 11.15am – 12.15pm

Video Productions - Upper Primary

Major Bursary - \$50

Name	School	Project Title	Sponsor
Lachlan Lau	Doncaster Gardens Primary School	How Does A Quadcopter Work?	The Royal Society of Victoria Inc
Elina Jayamanna	Serpell Primary School	The Science of Sound	Minerals Council of Australia (Victorian Division)
Gemma Parmenter Paige Thompson	Fintona Girls School - Primary	Water as a Solid, Liquid and Gas	Chemistry Education Association

Video Productions - Upper Primary

Minor Bursary - \$40

Name	School	Project Title	Sponsor
Aaliyah Christou	Serpell Primary School	Industrial Robots Healthcare Industry	Biology Teachers' Network Inc.
Caleb Bek	Chairo Christian School Cardinia (Primary)	Weird Science - Robots, drones and droids	The Royal Society of Victoria Inc
Zoe Johnson Jasmine Muniratna	Fintona Girls School - Primary	Carbon Dioxide	Chemistry Education Association
Rachel Crawford Lucy Parmenter	Fintona Girls School - Primary	Oxygen, Carbon Dioxide and Flames	Chemistry Education Association
Ruby Bennett Amelia Pierce	Fintona Girls School - Primary	Liquids and Solids	Chemistry Education Association
Charlotte Fels Elaina Karametos	Fintona Girls School - Primary	Gravity	The University of Melbourne - School of Physics
Emma Huibers	Korowa Anglican Girls' School - Primary	The Germination Presentation	Biology Teachers' Network Inc.



Experimental Research - Lower Primary

Major Bursary - \$45

Name	School	Project Title	Sponsor
Victoria Maxsted	Melbourne Girls Grammar School - Morris Hall	Exploring the possibility of life on other planets	Biology Teachers' Network Inc.
Emily Ingham	Melbourne Girls Grammar School - Morris Hall	Light- How well do we perceive brightness?	The Royal Society of Victoria Inc

Experimental Research - Lower Primary

Minor Bursary - \$35

Name	School	Project Title	Sponsor
Tom Roberts	Paynesville Primary School	Catapults	The Royal Society of Victoria Inc
Brodie Radford	Paynesville Primary School	What is the Effect of Wheel Size on Speed	Australian Skeptics
Sara Melrose	Paynesville Primary School	Can Exercise Improve Our Memory	Biology Teachers' Network Inc.
Xavier Norman	St Leonard's College - Primary	Investigating mixtures	Chemistry Education Association

Inventions - Lower Primary

Minor Bursary - \$35

Name	School	Project Title	Sponsor
Damon Bendschneider	Scotch College - Junior	Light up Violin	Deakin University: Faculty of Science, Engineering & Built Environment

Working Models - Lower Primary

Major Bursary - \$40

Name	School	Project Title	Sponsor
Zachary Kwei	Serpell Primary School	Hydraulic-Robotic Arm	Australian Skeptics
Jeff Cheah	Glendal Primary School	Robot Toy	The Royal Society of Victoria Inc

Working Models - Lower Primary

Minor Bursary - \$30

Name	School	Project Title	Sponsor
Grace Maisey	Solway Primary School	Drawing Robot	Deakin University: Faculty of Science, Engineering & Built Environment
Will James	Caulfield Grammar School - Malvern Campus	Fan Propelled Catamaran	Electric Energy Society of Australia Inc.
Michelle Butler	Camelot Rise Primary School	The Science of Spinning	Australian Skeptics
Marie-Jeanne Purwanto	Melbourne Girls Grammar School - Morris Hall	Hydraulic Arm	The BHP Billiton Science and Engineering Awards, managed by CSIRO

Games - Lower Primary

Major Bursary - \$35

Name	School	Project Title	Sponsor
Albert Magee William Mitchell	Our Holy Redeemer School	Missing Part	Catholic Education Melbourne

Agora Theatre: 11.15am – 12.15pm

Games - Lower Primary *(continued)*

Minor Bursary - \$25

Name	School	Project Title	Sponsor
Olivia Douglas	Lowther Hall Anglican Grammar School	Lava Flow	Minerals Council of Australia (Victorian Division)
Mikayla Weerakoon	Brighton Primary School	Lazy Life	Australian Skeptics

Experimental Research - Middle Primary

Major Bursary - \$55

Name	School	Project Title	Sponsor
Sienna Gauci	Lowther Hall Anglican Grammar School	Effects of an Electromagnets Magnetic Strength	Victoria University
Owen Smith	St Leonard's College - Primary	How basic robotic arms work and how to improve them	Quantum Victoria

Experimental Research - Middle Primary

Minor Bursary - \$45

Name	School	Project Title	Sponsor
William Johnson	Wesley College - Junior Campus	Spheronic Friction	Electric Energy Society of Australia Inc.
Max Bodon Tom Farrer	Scotch College - Junior	Unmanned Aerial Vehicle Design	Australian Skeptics
Noah Fraser	Scotch College - Junior	"Hot Hands" environmentally friendly mittens	The Field Naturalists Club Of Victoria Inc.
Eve Smith	St Leonard's College - Primary	How much energy do different sport activities require?	Australian Society for Biochemistry & Molecular Biology

Inventions - Middle Primary

Major Bursary - \$55

Name	School	Project Title	Sponsor
James Butler	Camelot Rise Primary School	Bronchial Assistance Machine	Deakin University: Faculty of Science, Engineering & Built Environment

Inventions - Middle Primary

Minor Bursary - \$45

Name	School	Project Title	Sponsor
Nigel Khong	Balwyn Primary School	Intelligent Alert System for Bushfire	Monash University - Faculty of Engineering and Information Technology

Working Models - Middle Primary

Major Bursary - \$45

Name	School	Project Title	Sponsor
Joshua Winkler	Clifton Hill Primary School	Plastic Cup Speaker	Don Hyatt
Nicholas Carlin Patrick Retschko	Caulfield Grammar School - Malvern Campus	Rubber band powered car	STELR Project
Finlay Hughes	Great Ryrie Primary School	Handy Robot	The Royal Society of Victoria Inc
Nethumlee Thota Hewage	Good News Lutheran College - Junior School	Colour Master	Independent Primary School Heads of Australia
Arica Mane	Glendal Primary School	Electricity	Electric Energy Society of Australia Inc.



Working Models - Middle Primary

Minor Bursary - \$35

Name	School	Project Title	Sponsor
Jonathan Pettinato	Our Holy Redeemer School	Mindstorm Magic	Australian Skeptics
Jessica Clark Kate Clark	Brighton Primary School	Litter Bug	Monash University - Faculty of Engineering and Information Technology
Harrison Kneebone	Mill Park Heights Primary School	Autonomous Drone	Parade College - Bundoora and Preston
Joshua Loh	Serpell Primary School	Working Model of a Dug Well	Minerals Council of Australia (Victorian Division)
Kiyara Wijemanne	Melbourne Girls Grammar School - Morris Hall	KIKI W	Independent Primary School Heads of Australia
Riveen Gangoda	Glendal Primary School	Electricity	Electric Energy Society of Australia Inc.
Shlok Kaushik	Glendal Primary School	Electricity	Electric Energy Society of Australia Inc.
Dennis Yahnov	Glendal Primary School	A Robot in Action!	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Olivia Cover	Holy Rosary School	Light Up The Night	Catholic Education Melbourne
Raegan Craggs Caitlin Fong	Templestowe Park Primary School	Orbit of the Moon	Swinburne University of Technology

Games - Middle Primary

Major Bursary - \$40

Name	School	Project Title	Sponsor
Yazid Achary-Khan	Serpell Primary School	Mission Dronactica	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Muthu Sakthi Velmurugan	Camelot Rise Primary School	Robot Challenge	Vaisala Pty Ltd

Games - Middle Primary

Minor Bursary - \$30

Name	School	Project Title	Sponsor
Jeremy Borsky Simeon Goldberg	Mount Scopus Memorial College (SFPS)	Robot Builder	Monash University - Faculty of Engineering and Information Technology
Ellie Frey Eliana Shnier	Mount Scopus Memorial College (SFPS)	Battle of Drones	Independent Primary School Heads of Australia
Julian Vernon	Mount Scopus Memorial College (SFPS)	CC9's Science Adventure	Victoria Teachers Mutual Bank
Caitlin Bouwmeester	Balnarring Primary School	Treetop Walk	Quantum Victoria
Tom Feeney	Balnarring Primary School	Drones, Droids and Robots	Yakult Australia Pty Ltd

Experimental Research - Upper Primary

Major Bursary - \$60

Name	School	Project Title	Sponsor
Caleb Hopewell	Solway Primary School	How Do Liquids Affect Metal Corrosion?	Chemistry Education Association
Noah Sewak	Wesley College - Junior Campus	Perception of Taste	Australian Society for Biochemistry & Molecular Biology
Melody Tomkins	Paynesville Primary School	Balloon Powered Cars - Which Car Will Travel Further	The Royal Society of Victoria Inc
Rhea Tara	Haileybury - Newlands Campus	Hydroponics	Biology Teachers' Network Inc.
Emily Bowles	St Leonard's College - Primary	Which citric fruit is a better battery?	Chemistry Education Association

Agora Theatre: 11.15am – 12.15pm

Experimental Research - Upper Primary

Minor Bursary - \$50

Name	School	Project Title	Sponsor
Eugenie Robertson Sabine Tsoi	Clifton Hill Primary School	Which animal drinks more efficiently - the cat or the rabbit?	Victoria University
Jaime Fordham	Paynesville Primary School	How Much Water Can One Nappy Take	Chemistry Education Association
Bitia Afshar	Serpell Primary School	An Experiment on the influence of Majority on Individual Choice	Australian Skeptics
Niklas Soderstrom	St Leonard's College - Primary	How UV protective is the school uniform?	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Isabella Evans Zoe Roberts	St Leonard's College - Primary	Surface Tension	Minerals Council of Australia (Victorian Division)
Piper Gibbs Indiana Williams	St Leonard's College - Primary	Do different fruits affect how long jelly takes to set?	Australian Society for Biochemistry & Molecular Biology
Caroline Clark Cheyenne Hurley	St Leonard's College - Primary	Worm Waste Fertiliser	Australian Society for Biochemistry & Molecular Biology
Riley Page	St Leonard's College - Primary	The effects of different materials on magnetic levitation	Electric Energy Society of Australia Inc.
Lauren Kirkwood Emerson Parrot	St Leonard's College - Primary	The effects of different toothpaste on plaque reduction	Australian Society for Biochemistry & Molecular Biology
Fynn Bennett	St Leonard's College - Primary	Which cricket grip will a batter hit the longest distance?	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Lee Tsourvakas	Strathcona Baptist Girls Grammar School - Primary	How does dyspraxia affect performance in timed tasks?	Parade College - Bundoora and Preston

Inventions - Upper Primary

Major Bursary - \$60

Name	School	Project Title	Sponsor
Aiden Fyfield	Huntingtower School - Primary	The booklite	Independent Primary School Heads of Australia
Matthew Bartrop Dion Mitchell	Essendon North Primary School	Robo Solar Cleaner	Australian Institute of Energy

Inventions - Upper Primary

Minor Bursary - \$50

Name	School	Project Title	Sponsor
Nathan Yeoh	Huntingtower School - Primary	PIR Motion Detection Safety Alarm	Deakin University: Faculty of Science, Engineering & Built Environment
Spencer Kelsey Griffin Legge	Clifton Hill Primary School	Anti Burglar 'Bot	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Akalanka Gunawardana	Lab Rats Science Club Primary	Bike Safety with Rear Vision	Deakin University: Faculty of Science, Engineering & Built Environment
Joon Cashmere	Clifton Hill Primary School	Collision Avoidance Warning System	Electric Energy Society of Australia Inc.
Jackson Court	Brighton Grammar School - Junior School	Power Up	Electric Energy Society of Australia Inc.
Daniel Garrity	Rosanna Golf Links Primary School	Sustainable Fuel	Australian Institute of Energy



Working Models - Upper Primary

Major Bursary - \$50

Name	School	Project Title	Sponsor
Hunter Taylor	Balnarring Primary School	Hunter Town	Australian Skeptics
Ashley Newnham	Great Ryrie Primary School	Aerodynamics - What a Drag!	Deakin University: Faculty of Science, Engineering & Built Environment
Samiksha Mutreja	Mill Park Heights Primary School	Robotic Insect	Biology Teachers' Network Inc.
Quinn Coetzee	Serpell Primary School	Gyro the Superhero	Yakult Australia Pty Ltd
Jessica Rumble	Chairo Christian School - Primary	Hydroelectric Power	Electric Energy Society of Australia Inc.
Cara Moulang	Brighton Primary School	BioBot - Following the Light	Australian Society for Biochemistry & Molecular Biology
Anshu Panjekar	Glendal Primary School	Electro-magnetic train	Australian Skeptics
Clara Petersen	Korowa Anglican Girls' School - Primary	Reconnaissance Robot	Independent Primary School Heads of Australia

Working Models - Upper Primary

Minor Bursary - \$40

Name	School	Project Title	Sponsor
Fatima Hakimi Anuthra Thenanhandi	Lyndale Greens Primary School	Generating Electricity	Electric Energy Society of Australia Inc.
Tristan Fuhrer Mason Swindells	Solway Primary School	Rubble Rescue Robot	STELR Project
Marlo van de Waterbeemd	Huntingtower School - Primary	Human Right Knee	Australian Skeptics
Nicholas Whitrod	Huntingtower School - Primary	Record Player	Independent Primary School Heads of Australia
Genevieve Conway	Clifton Hill Primary School	Geothermal Energy	Minerals Council of Australia (Victorian Division)
Zachary Warnest-Knowles	Clifton Hill Primary School	Llama 'Bot 3000	Australian Skeptics
Nicholas Glauser-Edwards	Haileybury - Berwick Campus	Micro Controller in a Mini-World	Australian Skeptics
William Ashley	Scotch College - Junior	Industrial Colour Sorting Robot	STELR Project
Jue Lys Law	Glendal Primary School	My Drone	Australian Skeptics
Daniel Kelly	Balwyn Primary School	Robotic Hydraulic Arm	In Memory of Noel Schleiger
Henry Feeney	Balwyn Primary School	Drones submarine	Swinburne University of Technology
Luka Catley Jack Donald	Templestowe Park Primary School	The Aquatic Machine	Australian Skeptics
Joshua Hui	Camberwell Grammar School - Primary	Motion Sensor	Don Hyatt
James Alexandrakis	Camberwell Grammar School - Primary	Excavator Arm	Minerals Council of Australia (Victorian Division)
Peter Fox	Rosanna Golf Links Primary School	Infrared Buggy	Victoria University
Hudson Cole	Chairo Christian School Cardinia (Primary)	Wind Powered Generator	In Memory of Noel Schleiger

Agora Theatre: 11.15am – 12.15pm

Games - Upper Primary

Major Bursary - \$45

Name	School	Project Title	Sponsor
Michal Atkinson	Wesley College - Junior Campus	Mission Mars	Deakin University: Faculty of Science, Engineering & Built Environment
Ai-Vi Le Hannah Ogawa	Fintona Girls School - Primary	Losing Land	Mordi Skeptics
Jordan Card Bethany Orme	Fintona Girls School - Primary	Wrath of the Sun	Victoria Teachers Mutual Bank
Mattea Black Samanthy Sudheshan	Fintona Girls School - Primary	Under the shadow of a volcano	In Memory of Noel Schleiger

Games - Upper Primary

Minor Bursary - \$35

Name	School	Project Title	Sponsor
Ciara Carey	Chairo Christian School Cardinia (Primary)	Robot Run	Independent Primary School Heads of Australia
Luke Bouwmeester	Balnarring Primary School	Science Sleuth	Australian Skeptics
Eoin Cooper	Scotch College - Junior	Science Controversy Game	Australian Skeptics
Shreya Barua Natasha Poon	Fintona Girls School - Primary	Bizzare Blizzards	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Livia Tropea Xiao Yu Wang	Fintona Girls School - Primary	Magma Strikes	In Memory of Noel Schleiger
Ashley Clausen Xinyu Xu	Fintona Girls School - Primary	Tornado Run	Vaisala Pty Ltd
Angelina Georgiou Rose Khurana	Fintona Girls School - Primary	Surviving the Tsunami	Independent Primary School Heads of Australia
Ebony Simon Paige Stanley	Fintona Girls School - Primary	The Forces of Earthquakes	In Memory of Noel Schleiger

Eastern Lecture Theatre: 11.15am – 12.15pm



Class Project - Lower Primary

Minor Bursary - \$120

Name	School	Project Title	Sponsor
Scotch College - Junior		Fitness Fanatics	The Royal Society of Victoria Inc
Dashiel Baker-Rice Yu	Ethan Bates	Thomas Brownell	Archer Buscombe
Thomas Cashin	Daniel Chen	Riley Cook	Jack Darley
Hamish Gordon	Xavier Grigo	Henry Hayward	Ethan Herbert
Sam Hinton	Max Johnston	Angus McCallum	Jesse McInerney
Edward Ross	Allexzo Siregar	James Temple	Ryder Tremewen
Michael Venables	Lachlan Wang	Massimo Zandona	Jarek Zheng

Class Project - Middle Primary

Major Bursary - \$180

Name	School	Project Title	Sponsor
Auburn South Primary School		Roboscacrow	In Memory of Noel Schleiger
Will Bond	Ben Burnes	Ryan Chung	Amaya Crawshaw
James Dunlop	Lawson Gallup	James Graham	Henry Han
Harry Hay	Chloe Johnstone	Noah Jones	Flynn Mackay
Gus McAndrew	Amber McDonnell	Abraham Nathan Valentine	Vithara Rashmi
Katie Wong	Andy Zhang		

Class Project - Middle Primary

Minor Bursary - \$150

Name	School	Project Title	Sponsor
Lyndale Greens Primary School		The Secrets of Sand	In Memory of Noel Schleiger
Haneen Abdulsattar	Amina Arifi	Simone Cottee	Christina Dotas
Stefan Dragicevic	Valentina Elsa Jo	Abdul Hadi Furqan	Kobey Hatzi
Nathaniel Hetharia	Dina Heyaari	Aisiri Joshi Arvind	Richard Ke
Malachi Koka-Sosene	Cameron MacDonald	Louis McDonald	Marko Pejic
Cyrus Perenise	Pooja Pippalla	Hayah Popal	Lakshethaa Rajan
Mohammed Shan	Leo Tek	Isabella Thach	Crystal White

Class Project - Upper Primary

Minor Bursary - \$180

Name	School	Project Title	Sponsor
Southmoor Primary School		Which paper glider design and size will travel the furthest?	Minerals Council of Australia (Victorian Division)
Mason Baeni	Freiya Briedis	Morgan Brien	Morgan Conroy
Benjamin Cornehlis	Mitchell Geers	Lachlan Hardy	Katherine Harrak
Daniel Ireland	Aashravi Jain	Lachlan Kirkpatrick	Zavier Lam
Nicolas Landicho	Anna Locatelli	Annabelle Maclurkin	Lily Maunsell
Sam Meadowcroft	Katy Murova	Felix Murphy	Lila Ni
Sabisha Ofole	Sebastian Saccotelli	Tobias Swales	Jordan Visser
Max Wheatley	Ethan Williams	James York	

Class Project - Upper Primary

Minor Bursary - \$180

Name	School	Project Title	Sponsor
Southmoor Primary School		Hydro Car	Australian Institute of Energy
Summer Albiston	Omer Barnea	Nicolas Battista	Lily Brooks
Frida Camacho Armenta	Bethy Cawthorne	Liam Christopher	Alicia Davis
Bailey Fraser	Curtis Gendron	Katrina Gill	Toby Graham-Vizer
Emily Harman	Evan Harrak	Ehab Kamal-Eddine	Jemilla Kennard
Finn Klaver	Kynan Latto	Faith Lawford	Evan Makarov
Nina McCann	Abby McGowan	Everton Parker-Black	Lachlan Patterson
Maya Pollock	Oliver Van Staden		

The Odeon: 11.15am – 12.15pm

Science Photography - Lower Primary

Major Bursary - \$35

Name	School	Project Title	Sponsor
Ariana Szoeker-Campbell	Melbourne Girls Grammar School - Morris Hall	Crystals	Minerals Council of Australia (Victorian Division)
Ava Merry	Carey Baptist Grammar School - Donvale	Autumn Leaves	Independent Primary School Heads of Australia

Science Photography - Lower Primary

Minor Bursary - \$25

Name	School	Project Title	Sponsor
Darcy Doolan	Fitzroy North Primary School	Why do red toadstools grow under pine trees?	Biology Teachers' Network Inc.

Posters Scientific Wall Charts - Lower Primary

Major Bursary - \$35

Name	School	Project Title	Sponsor
Patrick Mehan	Rosanna Golf Links Primary School	Robots in my home	Australian Skeptics
Aiden Butler	Camelot Rise Primary School	Robo-Space	Deakin University: Faculty of Science, Engineering & Built Environment
Alice Fletcher	Mentone Grammar School - Primary	Robots in Space	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Abbey Nikolic	Melbourne Girls Grammar School - Morris Hall	Robots in Space- Mars Rover	Independent Primary School Heads of Australia
Richard Ellis	Glendal Primary School	Drones, droids or robots in my home	Monash University - Faculty of Engineering and Information Technology

Posters Scientific Wall Charts - Lower Primary

Minor Bursary - \$25

Name	School	Project Title	Sponsor
Jade Edwards Norah Xia	Solway Primary School	Robofish	Australian Skeptics
Mosa Alaskary	Wesley College - Junior Campus	Mars Curiosity Rover	Independent Primary School Heads of Australia
Allen Zhou	Wesley College - Junior Campus	Here Comes the Flying Robot	The Royal Society of Victoria Inc
Tom Berger	Eltham East Primary School	Robots in Space	Parade College - Bundoora and Preston
Joel Heng	Scotch College - Junior	Drones, droids or robots in my home	Yakult Australia Pty Ltd
Christian Heng	Scotch College - Junior	Robots in space	Victoria Teachers Mutual Bank
Hudson Close	Mentone Grammar School - Primary	It's a Bird? It's a Plane? No it's a	Vaisala Pty Ltd
Jackson Robenn	Brighton Primary School	Robots in Space	Independent Primary School Heads of Australia
Anais Ooi	Glendal Primary School	Is it a bird? Is it a Plane? No it's a...	Australian Skeptics
Alice Wen	Glendal Primary School	Industrial Robots	The BHP Billiton Science and Engineering Awards, managed by CSIRO

The Odeon: 11.15am – 12.15pm



Science Photography - Middle Primary

Major Bursary - \$40

Name	School	Project Title	Sponsor
Eva Papaleo Adelia Papaleo	Fitzroy North Primary School	Plant Survival	The Field Naturalists Club Of Victoria Inc.
Skye Sriratana	Glendal Primary School	Bees	Entomological Society of Victoria Inc.

Science Photography - Middle Primary

Minor Bursary - \$30

Name	School	Project Title	Sponsor
Sofia Beliakov Amaya	Lab Rats Science Club Primary	Pollen+pollen	Australian Skeptics
Amelia Bartoli	Plenty Valley Christian College	Our star the Sun	Independent Primary School Heads of Australia
Phi Vuong	Glendal Primary School	Light	The BHP Billiton Science and Engineering Awards, managed by CSIRO

Posters Scientific Wall Charts - Middle Primary

Major Bursary - \$40

Name	School	Project Title	Sponsor
Cooper Hailes Finn Timmons	Eltham East Primary School	Is it a bird? Is it a plane? No, it's a	Victoria Teachers Mutual Bank
Ethan Mar	Auburn South Primary School	Drones, Droids or Robots in my home	Vaisala Pty Ltd
Micaela Chee Eva Doulgeridis	Sacre Coeur - Primary	Is it a bird? Is it a plane? No, it's a ...	Catholic Education Melbourne
Sophie Chinnock Sophia Woods	Our Holy Redeemer School	Robots in Space	Catholic Education Melbourne
Noemi Snizek Hannah Wagner	Mentone Grammar School - Primary	Cobotics in Industry	Independent Primary School Heads of Australia
Sienna Rowe	Serpell Primary School	Is it a bird? Is it a plane? No, it's a...	Mordi Skeptics
Darcy Mitchell	Serpell Primary School	Is it a bird? Is it a plane? No, it's an... Anti-Rhino-Poaching UAV	Australian Skeptics
Joash Law	Glendal Primary School	Is it a bird? Is it a Plane? No it's a...	Deakin University: Faculty of Science, Engineering & Built Environment
Sharane Gowritharan	Glendal Primary School	Drones, Droids & robots in my home...	Quantum Victoria
Joshua Lombard	Glendal Primary School	Robots in Space	Australian Skeptics

Posters Scientific Wall Charts - Middle Primary

Minor Bursary - \$30

Name	School	Project Title	Sponsor
Suhanayan Piratheepan	Northside Christian College - Primary	My Dinosaur Robot	Victoria Teachers Mutual Bank
Michelle Wesley	Northside Christian College - Primary	Industrial Robots: The Robot Arm	Victoria University
Oliver Hollis	Eltham East Primary School	Robots in Space	Parade College - Bundoora and Preston
Ruby Guszlovan Carly Millar	Eltham East Primary School	Is it a bird? Is it a plane? No, it's a	Australian Skeptics
Roderina Chua Nelum De Silva	Sacre Coeur - Primary	Robots in space	Catholic Education Melbourne
Frederick Magee Liam Steinfert	Our Holy Redeemer School	Robots in Space	Catholic Education Melbourne
Kieran Durkin	Our Holy Redeemer School	Industrial Robots	Independent Primary School Heads of Australia

The Odeon: 11.15am – 12.15pm

Posters Scientific Wall Charts - Middle Primary *(continued)*

Minor Bursary - \$30

Name	School	Project Title	Sponsor
Zara Buultjens Amelie Dwyer	Our Holy Redeemer School	Industrial Robot	Australian Skeptics
Jeremy Le	Scotch College - Junior	Robots in space	Vaisala Pty Ltd
Tahlia Katrantzis	Caulfield Grammar School - Malvern Campus	Is it a Bird? Is it a Plane? No it's a Drone	Independent Primary School Heads of Australia
Cameron Bailey	Great Ryrie Primary School	Robots in Space	Australian Skeptics
Kyle Roos Ayden Roos	Mentone Grammar School - Primary	Robots in Space	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Sophie Frost	Mentone Grammar School - Primary	Industrial Robots	Deakin University: Faculty of Science, Engineering & Built Environment
Abigail Barrett	Mentone Grammar School - Primary	Robots in Space	Australian Skeptics
Lili Reich	Serpell Primary School	Is it a bird? Is it a plane? No, it's a...	In Memory of Noel Schleiger
Gemma Ianchello	Serpell Primary School	The Best Type of Robots are: Industrial Robots	STELR Project
Matthew Antonopoulos	Serpell Primary School	Industrial Robots	The Royal Society of Victoria Inc
Ellie Hrysoudis	Firbank Grammar School - Sandringham House	Robots in space	The Royal Society of Victoria Inc
Max Barnett	Flemington Primary School	Magnificent Drones	Victoria University
Abigail Fisher	Melbourne Girls Grammar School - Morris Hall	Robots in Space- Getting a Robot to Alpha Centauri	Independent Primary School Heads of Australia
Alice Choi	Glendal Primary School	Robots in Space	Vaisala Pty Ltd
Ben Su	Carey Baptist Grammar School - Donvale	Is it a bird? Is it a plane? No its a...	Yakult Australia Pty Ltd

Science Photography - Upper Primary

Major Bursary - \$45

Name	School	Project Title	Sponsor
Cody le Blanc	Huntingtower School - Primary	Mathematics in Nature	Australian Skeptics
Aristea Andrianopolous Esther Bornstein	Clifton Hill Primary School	Aristea & Esther's Photography	Vaisala Pty Ltd
Eisak Tabensky	Chairo Christian School - Primary	Bushfire forest regeneration	The Field Naturalists Club Of Victoria Inc.

Science Photography - Upper Primary

Minor Bursary - \$35

Name	School	Project Title	Sponsor
Natalie Afaj Pooja Don Manuvelge Don	Lyndale Greens Primary School	Autumn Leaves	Biology Teachers' Network Inc.
Zara Barrell	Lowther Hall Anglican Grammar School	Colour Explosion	Chemistry Education Association
Katelyn Liddle	Chairo Christian School Cardinia (Primary)	The Effect Of Yeast On Bread	Yakult Australia Pty Ltd
Saskia Heng	Strathcona Baptist Girls Grammar School - Primary	Surface tension	Independent Primary School Heads of Australia
Lauren Joyce Estelle Rodriguez	Strathcona Baptist Girls Grammar School - Primary	Fibonacci in Nature	Don Hyatt

Posters Scientific Wall Charts - Upper Primary

Major Bursary - \$45

Name	School	Project Title	Sponsor
Raphael Tibbits	Eltham East Primary School	Robots in Space	Parade College - Bundoora and Preston
Alastair Murphy	Trinity Grammar School - Junior	Is it a bird? Is it a plane? No, it's a...	Australian Skeptics



Posters Scientific Wall Charts - Upper Primary (continued)

Major Bursary - \$45

Name	School	Project Title	Sponsor
Sarah Connell	Mentone Grammar School - Primary	Industrial Robots	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Riley Wollen	Mentone Grammar School - Primary	Robots in Space	Monash University - Faculty of Engineering and Information Technology
Peter Natsioulas	Mentone Grammar School - Primary	Industrial Robots	Swinburne University of Technology
Jasmine Kinghorn	Serpell Primary School	Is it a bird? Is it a plane? No, it's a... Drone!	The Royal Society of Victoria Inc
Jessica Soo	Serpell Primary School	Robots in Space	Victoria Teachers Mutual Bank
Charlotte Ross	Haileybury - Brighton Campus	Droids, Drone and Robots in my home	Australian Skeptics
Ned Chesler	Camberwell Grammar School - Primary	Robots in Space	Deakin University: Faculty of Science, Engineering & Built Environment
Oliver Liu-Mu	Camberwell Grammar School - Primary	Robots in Space	Don Hyatt

Posters Scientific Wall Charts - Upper Primary

Minor Bursary - \$35

Name	School	Project Title	Sponsor
Aaron Evans Isabelle Kluchkovsky	Northside Christian College - Primary	The Mars Curiosity	Victoria University
Tanay Toshniwal	Wesley College - Junior Campus	Industrial Robots	Independent Primary School Heads of Australia
Deanna Hollis	Eltham East Primary School	Robots in Space	Parade College - Bundoora and Preston
Ben Cromer Rowan Fyffe	Eltham East Primary School	Industrial Robots	The Royal Society of Victoria Inc
Tiffany Nguyen	Lowther Hall Anglican Grammar School	Assistive Robots in my Home	Victoria University
Jacob Joyner	Rosanna Golf Links Primary School	Light, robots and exploration in Space	Deakin University: Faculty of Science, Engineering & Built Environment
Kunal Gupta	Heathdale Christian College - Primary	Robots in space	Victoria University
Matthias Lillis	Serpell Primary School	Robots in my Home	Yakult Australia Pty Ltd
Aleeza Hafeez	Serpell Primary School	Is it a bird? Is it a plane? No, it's an... Ambulance Drone	The Royal Society of Victoria Inc
Aaron Do	Serpell Primary School	Robots in Space	The Royal Society of Victoria Inc
Dylan Chi	Serpell Primary School	Robots in Space	Vaisala Pty Ltd
Neha Maria Sibi	Hume Anglican Grammar School - Primary	Industrial Robots - Robots in nuclear power plants	Victoria University
Katrina Wong	Haileybury - Newlands Campus	Components of Industrial Robots	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Yi Vei Lim	Glendal Primary School	Is it a Bird? Is a Plane? No it's a ...	The Royal Society of Victoria Inc
Chiara Seidenman	Glendal Primary School	Industrial Robots	Australian Skeptics
Himalaya Joshi	Balwyn Primary School	Drones, Droids and Robots	Australian Skeptics
Nicole Lim	Balwyn Primary School	Drones, Droids and Robots	Catholic Education Melbourne
Angus Blackburn	Camberwell Grammar School - Primary	Is it a bird? Is it a plane? No, It's a super drone....	The Royal Society of Victoria Inc
Charlie Campbell-Cowan	Camberwell Grammar School - Primary	Robots in Space	The Royal Society of Victoria Inc
Samuel Choong Tin Lok Zhang	Camberwell Grammar School - Primary	Industrial robots: The Use of Surgical Robots in the Health Industry	Deakin University: Faculty of Science, Engineering & Built Environment

Agora Cinema: 12.30pm – 1.30pm

Inventions - Junior

Major Bursary - \$100

Name	School	Project Title	Sponsor
Joseph Davies	Lab Rats Science Club Secondary	Arduino Adapter for RaspberryPi to Mindstorms	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Jakob Schuster	Brunswick Secondary College	Remote Control & Autonomous Robot	Rowe Scientific Pty Ltd
Justin Mitchell	St Kevin's College - Senior School	Synth-etic	Swinburne University of Technology
Isabella Combes	Methodist Ladies' College - Senior School	Automatic Morse Code Machine (AM CM)	Rowe Scientific Pty Ltd
Jack Chapman	St Leonard's College - Secondary	Feed-O-Matic	Rowe Scientific Pty Ltd
Dominic Cornish	Parade College - Bundoora	Robo 2	Rowe Scientific Pty Ltd
Manuel Benny	Parade College - Bundoora	Gorgon Robot	Monash University - Faculty of Engineering and Information Technology
Sahan Liyanage			
Bastian Vincent Paul			

Inventions - Junior

Minor Bursary - \$60

Name	School	Project Title	Sponsor
Hugh Simpson	St Leonard's College - Secondary	The AutoFiddler Mark II	Rowe Scientific Pty Ltd
Alessandra Pian	St Leonard's College - Secondary	Moving table	Swinburne University of Technology
Jessica Robbins	St Kevin's College - Senior School	The Moisture Sensor	Catholic Education Melbourne
Lucas Valente	Bialik College	Energy Conservation Device - Shower Heat Exchanger	Australian Institute of Energy
Leon Paratz	St Leonard's College - Secondary	D3 - Doo Doo Droid	Rowe Scientific Pty Ltd
Isabella Raulings			

Working Models - Junior

Major Bursary - \$55

Name	School	Project Title	Sponsor
Thomas Sobol	Plenty Valley Christian College	Robotic Arm	Deakin University: Faculty of Science, Engineering & Built Environment
Devindi Ambawatta	St Margaret's School	Ohm's Law	Rowe Scientific Pty Ltd
Irene Danny	St Kevin's College - Senior School	Working River Lock	Catholic Education Melbourne
Ryan King	St Kevin's College - Senior School	Electromagnetic Pulse	Rowe Scientific Pty Ltd
Emile Ambrosi	St Kevin's College - Senior School	Manual handler-powered hovercraft drone	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Thomas Bartl	St Kevin's College - Senior School	The Flying Drone	Rowe Scientific Pty Ltd
Francesco Coppola D'Angelo	St Leonard's College - Secondary	Prototype Hand	Monash University - Faculty of Engineering and Information Technology
Andrew Collins	Princes Hill Secondary College	Building Solid State Tesla Coil: Slayer Exciter	Rowe Scientific Pty Ltd
Luke Pan	Canterbury Girls Secondary College	Robotic Arm	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Ewan Grover			
Sarah Hurst			



Working Models - Junior

Minor Bursary - \$45

Name	School	Project Title	Sponsor
Declan Buijs	Plenty Valley Christian College	Pi Bot	Rowe Scientific Pty Ltd
Hamish Petersen	St Kevin's College - Senior School	Mars Mapper	Rowe Scientific Pty Ltd
Ned Dwyer Kyle Reynolds	St Kevin's College - Senior School	The Workings Of Your Brain	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Henry Chheng Ilias Kontogiannis	Cheltenham Secondary College	Simple Electric Motor	Australian Institute of Energy
Yoseph Wahba Molano	Cheltenham Secondary College	Portable Water Purifier	Rowe Scientific Pty Ltd
Cameron Connell Joseph Shim	Mentone Grammar School - Middle School	The Dart Tank	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Miriam El-Behesy Shari Jega	Methodist Ladies' College - Senior School	Drugs and how they effect us	Rowe Scientific Pty Ltd
Meg Rogers	Horsham College	Rogers Hydroelectric House	Australian Skeptics
George Kelly Edward Le	Maribyrnong College	Levitating Train	Victoria University
Marvan Adams	St Kevin's College - Senior School	Mechanical Hand	Rowe Scientific Pty Ltd
Jack Casey Charles Lee	St Kevin's College - Senior School	Earthquake Simulator	In Memory of Noel Schleiger
Erica Phoa	Avila College	The various ways which boats can be powered	Rowe Scientific Pty Ltd
Christabelle Sriratana	Tintern Grammar - Secondary	Seed spreader working model	Rowe Scientific Pty Ltd
Sarah Stephen Karen Xiao	Fintona Girls School - Senior Secondary	Refraction & Reflection	Rowe Scientific Pty Ltd
Sachin Pathy	Kew High School	Sensor Roboto	The University of Melbourne - School of Physics
Nanda Bawana	Maribyrnong College	A Homopolar Motor	Victoria University

Science Photography - Junior

Major Bursary - \$50

Name	School	Project Title	Sponsor
Beth O'Brien	Sacred Heart Girls College	How the seasons affect a leaf's pigment	Victoria University
Jeremy Nielsen	Haileybury - Berwick Campus	Chemicals in fire	Chemistry Education Association
Anton Kogios	Heathdale Christian College - Secondary	Computers	Victoria University
Harry Byrne	Koonung Secondary College	Science Photography - Life cycle of a rose	The Royal Society of Victoria Inc
Addison Heath	Koonung Secondary College	Science Photography - Smoke Patterns	Swinburne University of Technology
Eleni Smith	Thornbury High School	Saunders case moth	In Memory of Noel Schleiger
Kayla Careri	St Monica's College - Dalton Rd Campus	Physical and Chemical Change	Catholic Education Melbourne

Science Photography - Junior

Minor Bursary - \$40

Name	School	Project Title	Sponsor
Xingtong Huang	St Margaret's School	DNA of Fruits	Australian Society for Biochemistry & Molecular Biology
Samuel Cathie	Plenty Valley Christian College	Flower Power	Parade College - Bundoora and Preston
Joanna Giannis	Shelford Girls' Grammar - Secondary	Photosynthesis	Australian Society for Biochemistry & Molecular Biology

Agora Cinema: 12.30pm – 1.30pm

Science Photography - Junior *(continued)*

Minor Bursary - \$40

Name	School	Project Title	Sponsor
Alice Hao	East Doncaster Secondary College	Autumn Leaf Chemistry	Chemistry Education Association
Brianna Wright	Methodist Ladies' College - Senior School	Fireworks	Chemistry Education Association
Joshua O'Neill	Cheltenham Secondary College	Oil, Water and Detergent	Minerals Council of Australia (Victorian Division)
Ethan Jayamanna	Doncaster Secondary College	Babbling about Bubbles	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Annabel Cowin	Tintern Grammar - Secondary	The beauty of condensation	Chemistry Education Association
Evabgeline Flair	Thornbury High School	Droids, drones and robots	Monash University - Faculty of Engineering and Information Technology
Adib Sadman	Thornbury High School	The Sun	In Memory of Eileen Goodfield & Dorothy Dalton

Inventions - Intermediate

Major Bursary - \$200

Name	School	Project Title	Sponsor
Keshav Mehra	2016 STAV Entry	Lawn Cell	Rowe Scientific Pty Ltd
Hannah Harvey	Presbyterian Ladies' College - Senior School	Coffee Cup Project	Australian Skeptics

Inventions - Intermediate

Minor Bursary - \$120

Name	School	Project Title	Sponsor
Jonathan Green	Bialik College	FlyPi	Rowe Scientific Pty Ltd
Sebastian Hagemeyer	Cheltenham Secondary College	S.A.W.R.	Australian Skeptics
Thomas Kozlowski			
Rhys Abas	Kolbe Catholic College	Mini computer	Victoria University

Working Models - Intermediate

Major Bursary - \$65

Name	School	Project Title	Sponsor
Shruthi Satheesan	Presbyterian Ladies' College - Senior School	Functions of a Nephron	Rowe Scientific Pty Ltd
Andrew Kogios	Heathdale Christian College	Line Tracker	Victoria University
Jerry Lu	- Secondary		

Working Models - Intermediate

Minor Bursary - \$55

Name	School	Project Title	Sponsor
Joel Griffin	Plenty Valley Christian College	A helping hand	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Matthew Chang	Scotch College - Senior	Shock Absorber	Swinburne University of Technology
Rupert Mosley			
Matthew Femia	Mazenod College	Aquaponics: a viable farming solution?	Rowe Scientific Pty Ltd
Zachary Kovac			
Parth Mahajan	Mazenod College	The Ecohouse	Catholic Education Melbourne
Sarah Pearse	Presbyterian Ladies' College - Senior School	How Energy Changes Forms	Rowe Scientific Pty Ltd
Nathan Yong			



Working Models - Intermediate *(continued)*

Minor Bursary - \$55

Name	School	Project Title	Sponsor
Jessica Li Sarah Liew	Presbyterian Ladies' College - Senior School	Sphero Scale Model Replica	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Jay Gusman Aidan Suski	Kolbe Catholic College	Arduino Based Gesture Copying Robotic Hand	Victoria University
Tegan Langeveld	Berwick Secondary College	Thermoelectric energy model	Rowe Scientific Pty Ltd
Alexander O'Brien	Koonung Secondary College	Centrifugal force demonstration project	The BHP Billiton Science and Engineering Awards, managed by CSIRO

Science Photography - Intermediate

Major Bursary - \$60

Name	School	Project Title	Sponsor
Hannah Ross	Melbourne Girls College	The respiratory system of insects	Entomological Society of Victoria Inc.
Anna Proctor	Nazareth College	The Science of Sunsets - Why are they different?	STELR Project

Science Photography - Intermediate

Minor Bursary - \$50

Name	School	Project Title	Sponsor
Ashley Neilson	Scotch College - Senior	The Ocean	In Memory of Noel Schleiger
Nhu Dinh Phoebe Nguyen	Our Lady of Mercy College	Bubbles	Catholic Education Melbourne
Beatrice Zhang	Presbyterian Ladies' College - Senior School	Does the Structure of a Flower Petal Determine the Success of the Plant?	Vaisala Pty Ltd
Hannah Scallion	Melbourne Girls College	A sky in motion	Victoria Teachers Mutual Bank

Inventions - Open

Major Bursary - \$300

Name	School	Project Title	Sponsor
Dylan Sanusi-Goh	John Monash Science School	An autonomous thermal imagery equipped quadcopter for border patrol applications	Rowe Scientific Pty Ltd

Agora Theatre: 12.30pm – 1.30pm

Experimental Research - Junior

Major Bursary - \$100

Name	School	Project Title	Sponsor
Anna Lewis	Genazzano F C J College	What material absorbs sound the best?	Rowe Scientific Pty Ltd
Matthew Crestani	St Kevin's College - Senior School	Kale and how different liquids effect its growth	Rowe Scientific Pty Ltd
Laura Shen	Strathcona Baptist Girls Grammar School - Secondary	How does Temperature affect the Stretch of a Rubber Band?	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Kate Newman	Strathcona Baptist Girls Grammar School - Secondary	An Investigation into the Weight of School Bags.	Rowe Scientific Pty Ltd
Claire Josefsson	Methodist Ladies' College - Senior School	Magnetism and cloud chambers	Rowe Scientific Pty Ltd
Elaine Greeley	Maribyrnong College	Regelation	Victoria University
Beatrice Van Rest	Avila College	Can peppermint improve reaction times when fatigued?	Rowe Scientific Pty Ltd
Pooja Soni	Avila College	Testing surface tension of dilute and concentrated liquids	The Walter and Eliza Hall Institute of Medical Research
Mietta Morris	Fintona Girls School - Senior Secondary	Electrolytes levels in sport and fruit drinks	Rowe Scientific Pty Ltd
Anyia Latti	Fintona Girls School - Senior Secondary	How effective are natural dyes?	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Dasheille Reid	Fintona Girls School - Senior Secondary	Oh! What a Pain	Rowe Scientific Pty Ltd
Emily Muniratna	Fintona Girls School - Senior Secondary	The Effect of Suggestion on Auditory Pareidolia	Australian Skeptics
Lucy Roberts	Fintona Girls School - Senior Secondary	Sunscreen, A Screen?	In Memory of Eileen Goodfield & Dorothy Dalton
Chloe Bridgeman	Fintona Girls School - Senior Secondary	Feel the Beat	Rowe Scientific Pty Ltd
Maia Edwards	Fintona Girls School - Senior Secondary	Washing Powder: Worth a pretty penny?	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Georgia Georgarakis	Fintona Girls School - Senior Secondary	Food for Food	Rowe Scientific Pty Ltd
Georgia Truong	Fintona Girls School - Senior Secondary	Are power wall battery systems cost effective?	Rowe Scientific Pty Ltd
Claire Walters	Fintona Girls School - Senior Secondary	Which paper towel absorbs the most water?	Rowe Scientific Pty Ltd
Lucy Boyce	Fintona Girls School - Senior Secondary	Seeking Vitamin C	Rowe Scientific Pty Ltd
Max Buntine	St Leonard's College - Secondary	Cataloguing Smells	Australian Skeptics
Megan Cornell	Mount Waverley Secondary College - Junior School		
Jennifer Clarke	Mount Waverley Secondary College - Junior School		
Finley Japp	St Joseph's College - Mildura		

Experimental Research - Junior

Minor Bursary - \$60

Name	School	Project Title	Sponsor
Olivia Nania	Genazzano F C J College	Durability of different brands of tennis balls	Rowe Scientific Pty Ltd
Elissa Grossi	Genazzano F C J College	How the ambient temperature affects the temperature of the first 20cm of water	Australian Skeptics
Alice Frawley	Genazzano F C J College	Sunny side up	Rowe Scientific Pty Ltd
Anika Jamieson	Strathcona Baptist Girls Grammar School - Secondary	How Reliable is an Eyewitness Report as Evidence in a Criminal Trial?	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Madeline Jong	Strathcona Baptist Girls Grammar School - Secondary	Whether Hot Water Freezes Faster than Cold Water?	Rowe Scientific Pty Ltd
Marietta Stents	Genazzano F C J College	Effect of temperature on woodwind instruments	Catholic Education Melbourne



Experimental Research - Junior *(continued)*

Minor Bursary - \$60

Name	School	Project Title	Sponsor
Alex Schache	Genazzano F C J College	What type of bread is most mould resistant	Rowe Scientific Pty Ltd
Courtney Garcia	Genazzano F C J College	Effect of exercising at different times of the day and sleep	Catholic Education Melbourne
Madeleine Ryan	Genazzano F C J College	Help or Hindrance: A study of music and sleep	Rowe Scientific Pty Ltd
Emily Croagh	Genazzano F C J College	Effects of pH levels on the corrosion of iron nails	Rowe Scientific Pty Ltd
Ruby Curtis	Genazzano F C J College	The effect of age on short term memory	Australian Skeptics
Sofia Bilic	Genazzano F C J College	Does age slow down reaction time?	Rowe Scientific Pty Ltd
Ella Mc Evoy	Genazzano F C J College	What type of wood burns the longest?	Catholic Education Melbourne
Jessie Zuccala	Genazzano F C J College	Which form of tennis ball bounces the highest?	Rowe Scientific Pty Ltd
Emily Jones	Strathcona Baptist Girls Grammar School - Secondary	Does Age Affect Taste Sensitivity?	Rowe Scientific Pty Ltd
Joyce Liu	Strathcona Baptist Girls Grammar School - Secondary	How do Teenagers Remember Better – Visually Or Verbally?	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Jessica Parris	Strathcona Baptist Girls Grammar School - Secondary	Does the Concentration of a Fertiliser Affect Plant Growth?	Rowe Scientific Pty Ltd
Erin Chan	Strathcona Baptist Girls Grammar School - Secondary	What Colours are Best to Study in?	Australian Skeptics
Charlotte Murray	Strathcona Baptist Girls Grammar School - Secondary	Finding the 'Sweet Spot' on a Hockey Stick	Rowe Scientific Pty Ltd
Caitlin Eccleston	Strathcona Baptist Girls Grammar School - Secondary	Sound Frequency Produced by a Wine Glass	Rowe Scientific Pty Ltd
Anna Glen	Strathcona Baptist Girls Grammar School - Secondary	The Growth Rate of Seedlings in Various Amounts of Sunlight	Australian Skeptics
Caitlin Melville	Strathcona Baptist Girls Grammar School - Secondary	Do Birds Remember/Recognise Colour?	Rowe Scientific Pty Ltd
Sayumi Premaratne	Methodist Ladies' College - Senior School	Effect of heat on cooking oils	The Walter and Eliza Hall Institute of Medical Research
Tahlia Sinclair	Methodist Ladies' College - Senior School	Response of an amorphous silicon solar cell to different wavelengths of light	In Memory of Eileen Goodfield & Dorothy Dalton
Lucy French	Maribyrnong College	The perfect time to cook popcorn	Rowe Scientific Pty Ltd
Isabel Amoranto	Avila College	Do different genres of music affect an adolescent's concentration and memory?	Catholic Education Melbourne
Alicia Roy	Avila College	Do various phone applications use more power than others?	Rowe Scientific Pty Ltd
Caitlin Marinis	Avila College	How do different exercise methods affect the test subjects heart rate?	Rowe Scientific Pty Ltd
Mieke de Vries	Avila College	What affects the length of light retainment in the eye?	Australian Skeptics
Holly Vuong	Nazareth College	Is washing the best way of getting bacteria from jeans?	Rowe Scientific Pty Ltd
Monique Heath	Fintona Girls School - Senior Secondary	How much sugar are you eating in your yogurt?	Australian Society for Biochemistry & Molecular Biology
Isabelle Cruickshank	St Leonard's College - Secondary	The Effect of Gender on Spatial Reasoning	Rowe Scientific Pty Ltd
Ana Levy	Mount Waverley Secondary College - Junior School	Power Analysis of a Drone	Rowe Scientific Pty Ltd

Agora Theatre: 12.30pm – 1.30pm

Computer Programs - Junior

Major Bursary - \$55

Name	School	Project Title	Sponsor
Caroline Pearce Monique Solnordal	Fintona Girls School - Senior Secondary	The Convolution of Chemistry	Chemistry Education Association
Solomon Bovolos Harry Loulakis	Thornbury High School	Gravity	The University of Melbourne - School of Physics

Computer Programs - Junior

Minor Bursary - \$45

Name	School	Project Title	Sponsor
Susannah McNab	Methodist Ladies' College - Senior School	Stomach Saver	Yakult Australia Pty Ltd
Vatsalnath Vyas	Lyndale Secondary College	Exploring Stars	Deakin University: Faculty of Science, Engineering & Built Environment

Experimental Research - Intermediate

Major Bursary - \$200

Name	School	Project Title	Sponsor
Jessica Hepworth	Ruyton Girls' School	Does colour improve our memory?	The Walter and Eliza Hall Institute of Medical Research
Irfan Hrelja Stone Ke	Scotch College - Senior	Polyphenol Inhibition of hIAPP Aggregation	Rowe Scientific Pty Ltd
Eamonn Whyte	St Joseph's College - Mildura	Which type of fly trap works best?	Rowe Scientific Pty Ltd
Jacqueline Tse	Presbyterian Ladies' College - Senior School	The Affect of Different Wavelengths on Plant Growth	Rowe Scientific Pty Ltd
Angelyn Neoh	Ruyton Girls' School	Treblesome tunes and their effects on short-term memory	The Walter and Eliza Hall Institute of Medical Research
Shraddha Tipirneni	2016 STAV Entry 3	Yogurt made at home	Rowe Scientific Pty Ltd

Experimental Research - Intermediate

Minor Bursary - \$120

Name	School	Project Title	Sponsor
Christopher Covelli	Suzanne Cory High School	Model Aircraft Propeller Efficiency	Rowe Scientific Pty Ltd
Amy Hall	Ruyton Girls' School	Racial bias without realising it?	The Walter and Eliza Hall Institute of Medical Research
Hayley Do	Ruyton Girls' School	Altering taste perception using leading questions	Rowe Scientific Pty Ltd
Tess Stewart	Ruyton Girls' School	The benefits of bubble gum	The Walter and Eliza Hall Institute of Medical Research
Annabelle Brown	Mentone Girls' Grammar School - Secondary Campus	The number of wipes taken to remove nail polish	Rowe Scientific Pty Ltd
Joey Fung	Mentone Girls' Grammar School - Secondary Campus	The effect of UV rays on growth of yeast	Rowe Scientific Pty Ltd
Michelle Fisher Natasha Fisher	Mentone Girls' Grammar School - Secondary Campus	Cost effective wind turbines	Rowe Scientific Pty Ltd
Emily Austin	Mentone Girls' Grammar School - Secondary Campus	Testing the pH of apple juice at different temperatures	The Walter and Eliza Hall Institute of Medical Research
Harry Trezise	Doncaster Secondary College	Comparing Ant Repellents	Rowe Scientific Pty Ltd
Philippa Danks Ellora Kelly	Ruyton Girls' School	Melting Moments	The Walter and Eliza Hall Institute of Medical Research
Lily Tarry-Smith Jemima Wotherspoon	Ruyton Girls' School	Saltastic Seeds	Rowe Scientific Pty Ltd
Alison Dang Sophia Lelliott	Ruyton Girls' School	The effectiveness of different cleaning sprays	Rowe Scientific Pty Ltd
Andy Li Wendy Wang	Presbyterian Ladies' College - Senior School	The Effect of Different Speeds of Music on Reaction Rate	Rowe Scientific Pty Ltd



Experimental Research - Intermediate *(continued)*

Minor Bursary - \$120

Name	School	Project Title	Sponsor
Malshani Hettiarachchi	Nazareth College	How does temperature affect pectinase and fruit juice?	The Walter and Eliza Hall Institute of Medical Research
Sarah Avery	Mentone Girls' Grammar School - Secondary Campus	Producing energy with the least expense	Rowe Scientific Pty Ltd
Emily Ilic	Gleneagles Secondary College	Diet, Health and Fitness	Rowe Scientific Pty Ltd
Jannalee Gunathilake	Mount Waverley Secondary College - Junior School	Ion Concentration in Sports Drinks	The Walter and Eliza Hall Institute of Medical Research

Computer Programs - Intermediate

Major Bursary - \$65

Name	School	Project Title	Sponsor
Alex Zhang	Scotch College - Senior	Computer Simulation of Electron Orbitals	Chemistry Education Association
Nicholas Browne	Camberwell Grammar School - Senior School	Crunch	Australian Skeptics

Computer Programs - Intermediate

Minor Bursary - \$55

Name	School	Project Title	Sponsor
Melissa Vines	Presbyterian Ladies' College - Senior School	Lunar Lander	The University of Melbourne - School of Physics
Rory Lewis	Camberwell Grammar School - Senior School	What a mess!	Mordi Skeptics
Niko Verrios	Camberwell Grammar School - Senior School	Space Smash	Quantum Victoria

Experimental Research - Open

Major Bursary - \$300

Name	School	Project Title	Sponsor
Tara Jadwani-Bungar	Methodist Ladies' College - Senior School	The Effect of Acid Deposition on Wheat Seed Germination	Rowe Scientific Pty Ltd
Sanya Bhatia	Tintern Grammar - Secondary	An investigation of ethanol content in different glucose concentrations	The Walter and Eliza Hall Institute of Medical Research
Keely McGovern	Tintern Grammar - Secondary	The effect of nitrogen and phosphorus concentrations on the growth of anabaena.	Rowe Scientific Pty Ltd
Maddy Button	Tintern Grammar - Secondary	The effect of different oils on the heat of combustion of biodiesel	Rowe Scientific Pty Ltd

Experimental Research - Open

Minor Bursary - \$200

Name	School	Project Title	Sponsor
Madeline Green	Methodist Ladies' College - Senior School	An Investigation of Genetic Determination of Coat Colour in Friesian Cattle	The Walter and Eliza Hall Institute of Medical Research
Jack Church	Tintern Grammar - Secondary	The effect of oxygen concentration on the efficiency of combustion of ethanol	Rowe Scientific Pty Ltd
Grace Edwards	Tintern Grammar - Secondary	How does oxygen exposure affect vitamin C content of orange juice?	The Walter and Eliza Hall Institute of Medical Research
Heidi Ruckert	Tintern Grammar - Secondary	The effect of changing the percentage of ethanol on heat of combustion of a fuel	Rowe Scientific Pty Ltd
Sanya Bhatia	Tintern Grammar - Secondary	The effect of spacing of consecutive magnets on total kinetic energy of a bob	Rowe Scientific Pty Ltd

Eastern Lecture Theatre: 12.30pm – 1.30pm

Creative Writing - Junior

Major Bursary - \$50

Name	School	Project Title	Sponsor
Melanie Noonan	Sacred Heart Girls College	Now a part of our everyday lives	Catholic Education Melbourne
Sithumya Adihetti	Haileybury - Berwick Campus	Now a part of our everyday lives	Australian Skeptics
Anna Siemering	Mentone Grammar School - Middle School	Going Where Humans Fear to Tread: The Diary of Jasper Green	Quantum Victoria
Dana Komodromos	East Doncaster Secondary College	Now A Part Of Our Everyday Lives	The Royal Society of Victoria Inc
Thomas Micallef	Parade College - Bundoora	Now a part of our everyday lives	Vaisala Pty Ltd
Meagan Lu	Methodist Ladies' College - Senior School	Servant or Master - Foul Farming	Australian Skeptics
Shailee Carmeli	Bialik College	Where humans fear to tread	The Royal Society of Victoria Inc
Claire Barber	Firbank Grammar School - Senior	Servant or Master	Yakult Australia Pty Ltd
Ashley Yoo	Firbank Grammar School - Senior	Going where humans fear to tread	Victoria Teachers Mutual Bank
Mariellen Pellegrino	Methodist Ladies' College - Senior School	Servant or Master	Vaisala Pty Ltd
Alexandra Walker	Methodist Ladies' College - Senior School	Going where humans fear to tread	In Memory of Noel Schleiger
Jessica Chung	Methodist Ladies' College - Senior School	Servant or Master - Oblivion	Australian Skeptics
Elisha Cox	East Doncaster Secondary College	Servant or Master	Australian Skeptics
Angelina Kichakov	Hume Anglican Grammar School - Secondary	Going where humans fear to tread	Victoria University
Meena Waziri	Gleneagles Secondary College	Going where humans fear to tread	Catholic Education Melbourne
Neha Kaur	Gleneagles Secondary College	The Universal Declaration of robot rights	Ken Greateorex
Sara Frewin	Koonung Secondary College	The Road To Singularity	Vaisala Pty Ltd

Creative Writing - Junior

Minor Bursary - \$40

Name	School	Project Title	Sponsor
Angelica Angsiting	Alphington Grammar School	Drones, Droids and Robots	Australian Skeptics
Valini Goorha	Haileybury - Berwick Campus	Now a part of our everyday lives	Deakin University: Faculty of Science, Engineering & Built Environment
Danielle Pedersen	Mentone Grammar School - Middle School	Who's the master now?	Monash University - Faculty of Engineering and Information Technology
Liam Bevilacqua	Parade College - Bundoora	Now a part of our everyday lives	Parade College - Bundoora and Preston
Matthew Daniel	Parade College - Bundoora	Servant or Master	Australian Skeptics
Jason Nguyen	Parade College - Bundoora	Servant or Master	Vaisala Pty Ltd
Nicholas Rotundo	Parade College - Bundoora	Going where humans fear to tread	Victoria Teachers Mutual Bank
Dylan Santos Rodrigues	Parade College - Bundoora	The Universal Declaration of Robot Rights	Vaisala Pty Ltd
Piper Wright Sarah Wu	Methodist Ladies' College - Senior School	Going where humans fear to tread	The Royal Society of Victoria Inc
Bridget Leibold	Methodist Ladies' College - Senior School	Servant or Master - The Powerful and the Powerless	Australian Skeptics
Penny Montgomery	Methodist Ladies' College - Senior School	Now a part of our everyday lives	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Hailey Ens	Firbank Grammar School - Senior	Servant or Master	Vaisala Pty Ltd
Holly Jordan	Firbank Grammar School - Senior	Servant or Master	Australian Skeptics



Creative Writing - Junior *(continued)*

Minor Bursary - \$40

Name	School	Project Title	Sponsor
Faye Lillian Magee	Doncaster Secondary College	The Universal Declaration of Robot Rights	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Mia Owen	Methodist Ladies' College - Senior School	Going where humans fear to tread	Victoria Teachers Mutual Bank
Wendy Wang	Methodist Ladies' College - Senior School	Void - going where humans fear to tread	The Royal Society of Victoria Inc
Olivia Yin	Methodist Ladies' College - Senior School	The Universal Declaration of Robot Rights	Australian Skeptics
Khush Thakkar	Hume Anglican Grammar School - Secondary	The Universal Declaration of Robot Rights	Victoria University
Reah Shetty	Haileybury - Newlands Campus	The Rift	The Royal Society of Victoria Inc
Edith Zhao	Doncaster Secondary College	Now a part of our everyday lives	Australian Skeptics
Arati Nair	Heathdale Christian College - Secondary	Going where Humans fear to go!	Victoria University
Tirtani Santosa	Gleneagles Secondary College	Going where humans fear to tread	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Zara Shaikh Simrah Shaikh	Korowa Anglican Girls' School - Secondary	Servant and Master	Vaisala Pty Ltd
Ryan Choi	Koonung Secondary College	PROJECT: AIR_STRYKE	Australian Skeptics

Video Productions - Junior

Major Bursary - \$55

Name	School	Project Title	Sponsor
Dominic Morelli	St Kevin's College - Senior School	Human Voice Box	Biology Teachers' Network Inc.
Aarya Hatkhambkar	East Doncaster Secondary College	Sound Of Our Voice	The Royal Society of Victoria Inc
Mia Pope	Fintona Girls School - Senior Secondary	Synaesthesia	Australian Society for Biochemistry & Molecular Biology
Kaaviyan Pathmasiri	Berwick Secondary College	Electromagnet	The University of Melbourne - School of Physics
Iona Cameron	Koonung Secondary College	Can Robots be Tricked by Illusions?	Australian Institute of Energy

Video Productions - Junior

Minor Bursary - \$45

Name	School	Project Title	Sponsor
Ricky Jiang Jaxon Spilsted-King	Parade College - Preston	Drones	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Willow Cameron Alexandra Clancy	Shelford Girls' Grammar - Secondary	Dreams	The Royal Society of Victoria Inc
Aaheli Barman Jing Lin	Box Hill High School	Robots in medicine	Australian Society for Biochemistry & Molecular Biology
Alexandra Egan Frances Fleming	Methodist Ladies' College - Senior School	Tired Eyes - How the eye works and afterglow illusions	Biology Teachers' Network Inc.
Hannah Schmidt	Mentone Grammar School - Middle School	Robots in Sport	The Royal Society of Victoria Inc
Thomas Duncan	St Kevin's College - Senior School	The Challenge of Self-Driving	Parade College - Bundoora and Preston
Aleen Dhaliwal Isabelle Moss	Fintona Girls School - Senior Secondary	Coal Vs Wind Power	In Memory of Noel Schleiger

Eastern Lecture Theatre: 12.30pm – 1.30pm

Video Productions - Junior *(continued)*

Minor Bursary - \$45

Name	School	Project Title	Sponsor
Alana Dimopoulos Alannah McKernan	Fintona Girls School - Senior Secondary	Dirty Decomposers	Australian Society for Biochemistry & Molecular Biology
Romy Le Fevre Marley Stroh	St Leonard's College - Secondary	How do fridges work?	Chemistry Education Association
Emily Cope	St Leonard's College - Secondary	The future is here with Sawyer and Baxter	The Royal Society of Victoria Inc
Lily Lunder	Gleneagles Secondary College	EV3LUTION	Biology Teachers' Network Inc.
Jemma Casey Ellie Jennings	Monivae College - Secondary	The science behind coke and mentos	Chemistry Education Association
Kiki Tran	Thornbury High School	Droids drones and robots	Victoria University

Creative Writing - Intermediate

Major Bursary - \$60

Name	School	Project Title	Sponsor
Matei Tufan	Mazenod College	Patch 16	Catholic Education Melbourne
Ashley Trask	Doncaster Secondary College	Going where humans fear to tread	Australian Skeptics
Lien Qing Zheng	Korowa Anglican Girls' School - Secondary	Solaris	In Memory of Noel Schleiger

Creative Writing - Intermediate

Minor Bursary - \$50

Name	School	Project Title	Sponsor
Joaquin Cross	Scotch College - Senior	The VLR camera	Australian Skeptics
Alyssa Davies	Shelford Girls' Grammar - Secondary	Going where humans fear to tread	Deakin University: Faculty of Science, Engineering & Built Environment
Isaac Zhao	Scotch College - Senior	Servant or master	Quantum Victoria
Jimmy Ngo Simon Tudehope	Mazenod College	Roboethics	Catholic Education Melbourne
Nicholas Leung	Mazenod College	Robolution	Australian Skeptics
Anthony Nguyen	Mazenod College	The experiment	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Chantelle D'Vaz Anna Blanch	Our Lady of Mercy College Presbyterian Ladies' College - Senior School	Now a part of our everyday lives The Universal Declaration of Robot Rights	Catholic Education Melbourne Vaisala Pty Ltd
Hala Hussein	Doncaster Secondary College	Going where humans fear to tread	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Cody Brown	Doncaster Secondary College	Servant or master	Australian Skeptics
Sanishka Singh	Doncaster Secondary College	Servant or master	Victoria Teachers Mutual Bank
Cassandra Tan	Avila College	Mrs A-261 REN	Catholic Education Melbourne
Aleesha Van Den Heuvel	Baden Powell College - Tarneit	Now a part of our everyday lives	Victoria University
Celeste Roy	Gleneagles Secondary College	Now a part of our everyday lives	Yakult Australia Pty Ltd
Rachel Masquiren Xuan Vu	Gleneagles Secondary College	Going where humans fear to tread	Australian Skeptics
Hamish McLean	Koonung Secondary College	Servant or master	Vaisala Pty Ltd
Arienne Suaiso	Koonung Secondary College	In our everyday lives	The Royal Society of Victoria Inc
Isha Tipirneni	2016 STAV Entry 3	Going where humans fear to tread	Australian Skeptics
Shraddha Tipirneni	2016 STAV Entry 3	The Universal Declaration of Robot Rights	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Nitya Chintaginjala	Brookside P-9 College - Secondary	A land where no one shall go	Victoria University



Video Productions - Intermediate

Major Bursary - \$65

Name	School	Project Title	Sponsor
Maddie Miller	Shelford Girls' Grammar - Secondary	Alzheimer's Disease	Australian Society for Biochemistry & Molecular Biology
Francesca Lam	Presbyterian Ladies' College - Senior School	Pros and Cons of Artificial Intelligence	The BHP Billiton Science and Engineering Awards, managed by CSIRO

Video Productions - Intermediate

Minor Bursary - \$55

Name	School	Project Title	Sponsor
Nyah Seelig-Schattner	Melbourne Girls College	Table dissolving	Chemistry Education Association
Stella Askey Matilda Smithers	Melbourne Girls College	What came first, the chicken or the egg?	Biology Teachers' Network Inc.
Hasitha Herath Mudiyanselage Nemsara Naiwala Appuhamilage	Parade College - Bundoora	What is energy	Australian Institute of Energy
Pinidu Chandrasekera Antony Di Placido	Parade College - Bundoora	Scientific Conspiracy Theories	Victoria University
Sandhya Das Thuraisingham	Presbyterian Ladies' College - Senior School	The Science Behind the Shades of the Sky	In Memory of Noel Schleiger
Ronan Landers	Parade College - Bundoora	Science of Stupid/Sport	Biology Teachers' Network Inc.

The Odeon: 12.30pm – 1.30pm

Games - Junior

Major Bursary - \$50

Name	School	Project Title	Sponsor
Katelyn O'Grady	Plenty Valley Christian College	Disease Monopoly	Australian Society for Biochemistry & Molecular Biology
Harry Officer	Mentone Grammar School - Middle School	Building Robots	Australian Skeptics
Natalie Barnes Alaina Hatton	Methodist Ladies' College - Senior School	Great Barrier Reef	The Field Naturalists Club Of Victoria Inc.

Games - Junior

Minor Bursary - \$40

Name	School	Project Title	Sponsor
Brayden Miller Oliver Moran	Mentone Grammar School - Middle School	Wipe your feet	Independent Primary School Heads of Australia
Ethan Pate	Mentone Grammar School - Middle School	Elemental Exasperation	Chemistry Education Association
Emma Ballinger	Santa Maria College	Reef Rescue	Catholic Education Melbourne
Giulia Perre	Santa Maria College	Acuqa	Parade College - Bundoora and Preston
Rosie Hyett	Methodist Ladies' College - Senior School	Power to the Penguins	Australian Skeptics
Emily Kha Natalie Lim	Fintona Girls School - Senior Secondary	Elements	Quantum Victoria
Maanya Kapoor Catherine Zheng	Fintona Girls School - Senior Secondary	Sense Sensibility	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Keisha Nathan	Gleneagles Secondary College	Hextend ME: Intelligence Extended	The Royal Society of Victoria Inc

Posters Scientific Wall Charts - Junior

Major Bursary - \$50

Name	School	Project Title	Sponsor
Sophie Green Ava Santamaria	Sacre Coeur - Secondary	Self driving car	The Royal Society of Victoria Inc
Mary Gashi	Shelford Girls' Grammar - Secondary	Help me – bionic eye	Biology Teachers' Network Inc.
Alannah Tuohy	Sacre Coeur - Secondary	Transhumanism Cryonics	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Siena Kinkela Sophie Rodrigues	Sacre Coeur - Secondary	Help me Guide robots	Catholic Education Melbourne
Ellen Sampsonidis	Methodist Ladies' College - Senior School	Robots in Space	Australian Skeptics
Matthew Nibbs	Cheltenham Secondary College	Transhumanism	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Jessica Whelan	Methodist Ladies' College - Senior School	Robots in Space	The University of Melbourne - School of Physics
Hannah Schwarz	Firbank Grammar School - Senior	Intelligent Machines	The Royal Society of Victoria Inc
Emilin Joby Neha Maria Sibi	Hume Anglican Grammar School - Secondary	Help me...	Victoria University
Mikayla Tunley	Sacred Heart College - Kyneton	The NASA Sojourner - Mars Robotic Rover	Catholic Education Melbourne
Sinthugaah Senthilmohan	Haileybury - Newlands Campus	Humanoid Robots	Quantum Victoria
Riley Johnson	Doncaster Secondary College	Robots in Space	The Royal Society of Victoria Inc
Natalie Coman	Haileybury - Brighton Campus	Engineering Robots for Space	Rowe Scientific Pty Ltd
Eyyern Lim	Haileybury - Newlands Campus	Robots in Space	Swinburne University of Technology
Zacki Rizwan	Gleneagles Secondary College	Robots in Space!	The Royal Society of Victoria Inc



Posters Scientific Wall Charts - Junior (continued)

Minor Bursary - \$40

Name	School	Project Title	Sponsor
Alyssa Di Muzio	Santa Maria College	How can Droids, Drones and Robots help people with Disabilities worldwide	Catholic Education Melbourne
Katrina Rizakis Monica Szmyd	Sacre Coeur - Secondary	Mars One Mission plan	Australian Skeptics
Katie Lumley Jade Sullivan	Sacre Coeur - Secondary	Space colonisation	In Memory of Noel Schleiger
Ella Pierce	Shelford Girls' Grammar - Secondary	Help me – Drones, Medical Supplies	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Stephanie Chalikouras Fay Haralambopoulos	Sacre Coeur - Secondary	Help me Google self driving car	Yakult Australia Pty Ltd
Katrina Nguyen	Sacre Coeur - Secondary	Help me Surgical robots	The Royal Society of Victoria Inc
Humdaan Hafeez	East Doncaster Secondary College	Help Me.....Male Infertility Diagnosed	Mordi Skeptics
Isabella Terry	Mentone Grammar School - Middle School	Robots in Space	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Matthew Leembruggen	Mentone Grammar School - Middle School	Robots in Space: NASA's robonaut "R2"	Australian Skeptics
Sarah Stanko	Santa Maria College	Intelligent Machines	Catholic Education Melbourne
Julianne Huynh	Santa Maria College	Transhumanism	Catholic Education Melbourne
John Giannakenas	East Doncaster Secondary College	Robots In Space	Rowe Scientific Pty Ltd
Molly Freeman	Methodist Ladies' College - Senior School	Help Me... Bionic Vision	The University of Melbourne - School of Physics
Jemima Broons	Bialik College	Robots in Space	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Steven Luc	Highvale Secondary College	Global Positioning Satellite	Victoria University
Joshua Watling	Cheltenham Secondary College	Help Me...	The Royal Society of Victoria Inc
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Harry Zervos	Cheltenham Secondary College	Transhumanism	Biology Teachers' Network Inc.
Lauren Malby-Luke	Mentone Grammar School - Middle School	Robots in Space	Deakin University: Faculty of Science, Engineering & Built Environment
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Carmen Moore	Sacred Heart College - Kyneton	Autonomous Mobile Robots	Catholic Education Melbourne
Zara Long	Sacred Heart College - Kyneton	Transhumanism	Biology Teachers' Network Inc.
Jeremy Rankin	Sacred Heart College - Kyneton	Robots In Space	Catholic Education Melbourne
Thomas Penkethman	Doncaster Secondary College	Robots in Space	The Royal Society of Victoria Inc
Erika Valianatos	Fintona Girls School - Senior Secondary	Transhumanism	The University of Melbourne - School of Physics
Shangyou Yang	Fintona Girls School - Senior Secondary	Help me... with Robotic Surgery	In Memory of Noel Schleiger
Kara Whitbourn	Fintona Girls School - Senior Secondary		
Aneirin Galloway McLean	St Leonard's College - Secondary	Transhumanism	Australian Society for Biochemistry & Molecular Biology
Claire Bergman Annika Widmann	St Leonard's College - Secondary	Intelligent machines: Beebots	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Mia Connelly	St Leonard's College - Secondary	Water Finder	Swinburne University of Technology
Isabelle Brosnahan	Firbank Grammar School - Senior	Robots in Space	The Royal Society of Victoria Inc

The Odeon: 12.30pm – 1.30pm

Posters Scientific Wall Charts - Junior *(continued)*

Minor Bursary - \$40

Name	School	Project Title	Sponsor
Ruby Wolfe	Firbank Grammar School - Senior	Transhumanism	Australian Society for Biochemistry & Molecular Biology
Tiana Watt	Kolbe Catholic College	Robots in Space	Victoria University

Games - Intermediate

Major Bursary - \$60

Name	School	Project Title	Sponsor
Lei Chrisel Capiral	The Grange P-12 College	Chemical Explosion	Chemistry Education Association
Poornima Laksa Ralalage	Secondary Campus		

Games - Intermediate

Minor Bursary - \$50

Name	School	Project Title	Sponsor
Marsalis Lam Sam Patterson	Cheltenham Secondary College	Operation Bionics	Deakin University: Faculty of Science, Engineering & Built Environment
Michelle Cheng Hachins D'Souza	St Monica's College - Dalton Rd Campus	Brain power	Parade College - Bundoora and Preston

Posters Scientific Wall Charts - Intermediate

Major Bursary - \$60

Name	School	Project Title	Sponsor
Katherine Semenov	Shelford Girls' Grammar - Secondary	Transhumanism "Biomechatronics"	Australian Society for Biochemistry & Molecular Biology

Posters Scientific Wall Charts - Intermediate

Minor Bursary - \$50

Name	School	Project Title	Sponsor
Anna Maria Sibi	Suzanne Cory High School	Transhumanism	Victoria Teachers Mutual Bank
Imogene Perlen	Shelford Girls' Grammar - Secondary	Transhumanism, "Transcranial Direct Current Stimulation"	Deakin University: Faculty of Science, Engineering & Built Environment
Olivia Kulesza	Shelford Girls' Grammar - Secondary	Help Me, "Applications of Nanobots"	The BHP Billiton Science and Engineering Awards, managed by CSIRO
Georgia Agati Taylor Radatti	Our Lady of Mercy College	Robots in space	The University of Melbourne - School of Physics
Charlotte (Emily) Dunning	Melbourne Girls College	Intelligent Machines: Robotics in Surgery	Biology Teachers' Network Inc.
Michelle Jakobus	Sacre Coeur - Secondary	Help me - The Bionic Eye	Biology Teachers' Network Inc.
Rebecca Mayall	Our Lady of Mercy College	Intelligent Machines	The Royal Society of Victoria Inc
Kevin Mullen	Cheltenham Secondary College	Help Me...	Vaisala Pty Ltd
Hanish Sareen	Hume Anglican Grammar School - Secondary	Robots in Space	Victoria University

Games - Open

Minor Bursary - \$60

Name	School	Project Title	Sponsor
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For further information about the Society, please contact
Dr Diana Stojanovski

ASBMB, c/- Bio21 Institute

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The 'ordinary meetings' of the Royal Society currently comprise an outstanding public lecture program on subjects ranging across the disciplines in Science, Technology, Engineering, Mathematics and Medicine (STEMM), along with a suite of distinguished awards and prizes to foster, recognise, reward and celebrate excellence at all stages of a scientist's career. It is our opportunity to learn more about progress in science, discuss issues together, and offer a broader promotional platform to scientists and their research with the general community.

Our aspirations for the Program include the upgrade of facilities in our heritage Hall to enable video recording and transmission of key events to reach a wider audience, plus additional events that enable our members to share professional experiences and expertise, contribute to public debate and deliberation, raise major issues in science and society, and bring the collective scientific wisdom of this accomplished group to bear on challenges facing our home here in Victoria, Australia.

Outreach and Partnerships - Supporting Youth and Diversity in Science

The future of science, and of our society, rests with the generations currently engaged in schooling and tertiary studies. The RSV's membership is deeply committed to the development of youth skills that will enable these generations to be productive, innovative and professionally agile in a challenging era of rapid technological, environmental and economic change. The RSV aspires to activate a community-based approach to recognising and fostering engagement in the sciences across regional and metropolitan Victoria, whether through leadership development initiatives, social inclusion and workforce participation projects, or collaborative learning programs.

Science History, Culture and Heritage

The Royal Society of Victoria has a long and distinguished history of contribution to the civic and cultural life of Victoria. Founded in 1854, much of our story, and the story of science in Victoria, has been told, but much remains to be discovered, understood and shared.

Science is an important part of our state's cultural life, a point of inspiration not just for discovery and invention, but also creativity and expression. Increasingly, the arts community is finding ways to help scientists bring their work to a larger audience through the tools of literature, visual arts and music.

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Science Policy, Advocacy and Communication

One of the best ways to make a real impact is to get the right people talking to one another. In the sciences, this means recognising and engaging with expertise, which means little if people with influence are not listening. Convening scientific expertise with communities and key influencers in government and industry is vitally important, as is the publication of robust science conducted in and about Victoria to inform debate and discussion.

Bringing the big picture together for a community of interest takes time, diplomacy, patience and resources. Together we can make a real difference - **join us, and help us to do more for science in Victoria!**

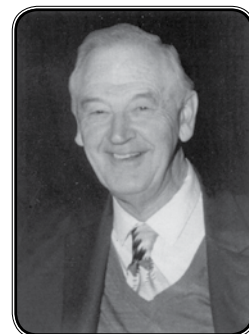
In Memory of Dr Noel Schleiger (1926 - 2013)

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Dr Noel Schleiger was a teacher of maths at TAFE level, and a highly active member of the Field Naturalists Club of Victoria (FNCV) between 1984 and 2013. His primary interest in natural history was geology; he actively led many excursions, wrote articles and gave talks on his area of expertise.

Noel was also the author of *Roadside geology* (1995), which was published jointly by FNCV and the Geological Society of Australia (Victorian Division).

Noel was a great support for science education over his career, which included his involvement in the 'Scientists in Schools' program. He leaves a legacy that we hope will inspire a future generation of scientists.



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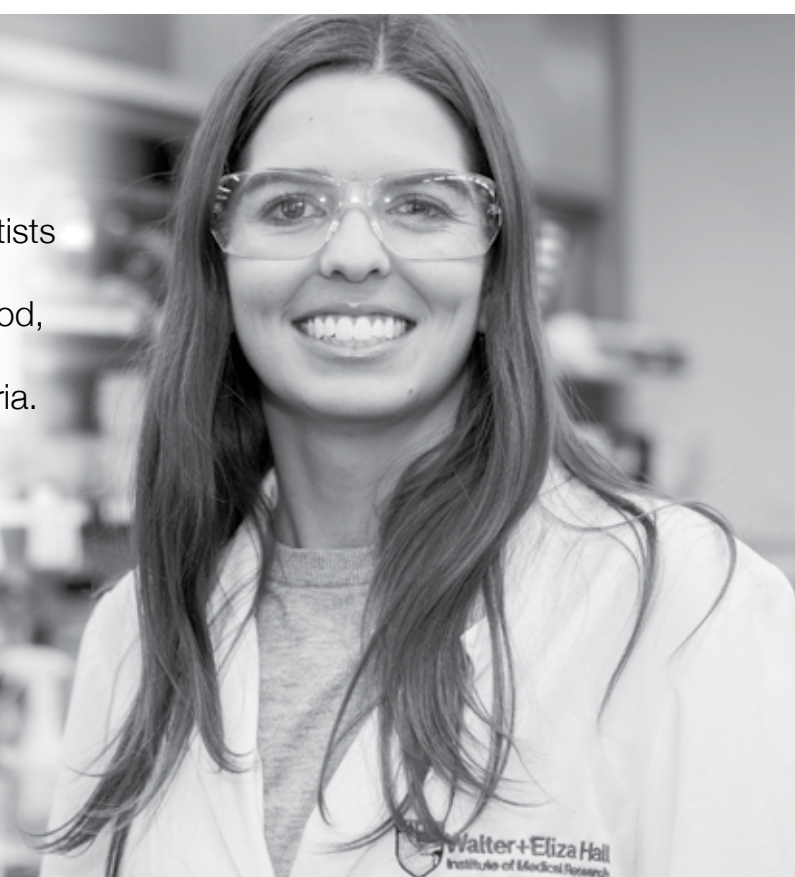
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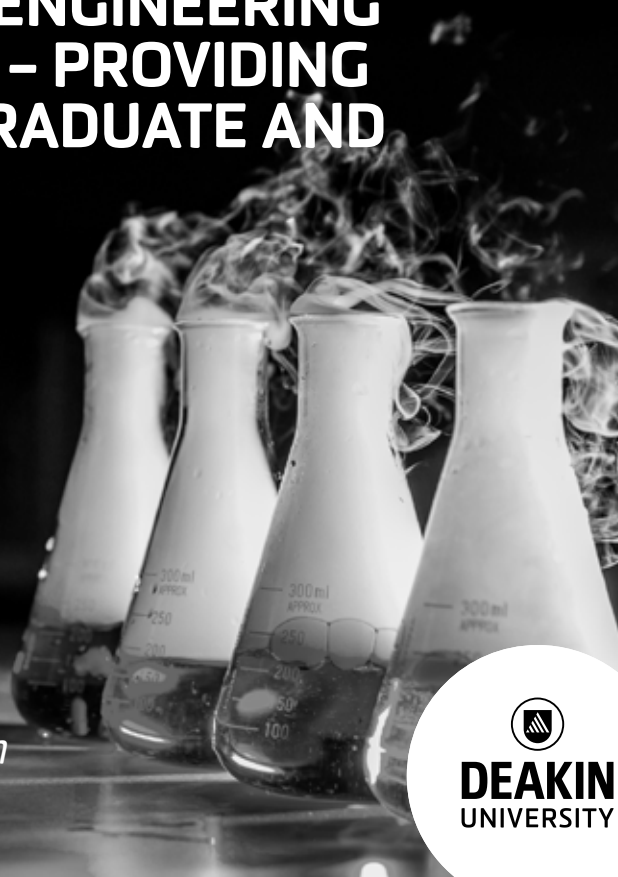
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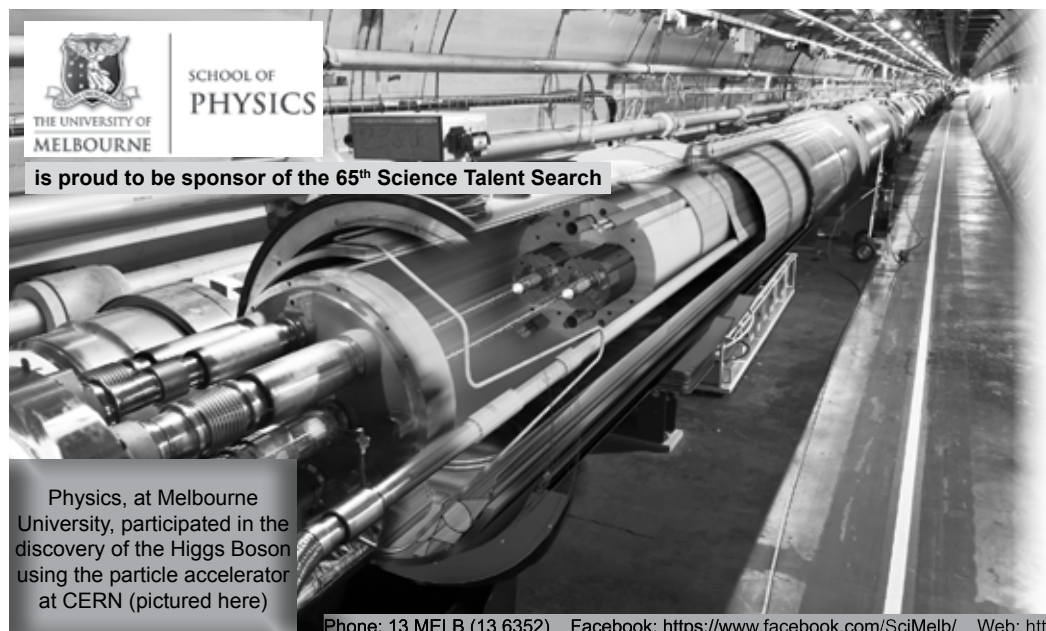


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St Andrews Christian College - Secondary	Dr Philip Strack
St Joseph's College - Mildura	Mr John McGlashan
St Kevin's College - Senior School	Mr Adam Bylsma Mr Chris Dunn Mr Luke Miller Mr Robert Bell
St Leonard's College - Primary	Miss Siti Kim Mrs Sun Buntine
St Leonard's College - Secondary	Mr Chris Hyde Miss Justine Werba
St Margaret's School	Ms Krista Bayliss
St Mary's School	Mrs Anna Fin Genero
St Monica's College - Dalton Rd Campus	Mr Jason Smith

STS Judges 2016



St Paul's Anglican Grammar School - Secondary	Mrs Carissa Kelly
Strathcona Baptist Girls Grammar School - Primary	Dr Charlotte Forwood
Strathcona Baptist Girls Grammar School - Secondary	Mr Geoff Wriedt Mr Ian McDonald
Sunbury Downs Secondary College	Mrs Anina Alexander Mr Daniel Crane
Suzanne Cory High School	Ms Dolly Nguyen
Templestowe Park Primary School	Miss Alexandra Augello Mr Mark Roberts
The Grange P-12 College Secondary Campus	Ms Ajshe Thaqi Ms Sophie Zwolanski
The Hamilton and Alexandra College - Senior	Mrs Amy-Leigh Andrews
The King David School - Magid Institute	Ms Claire Stanner
Thornbury High School	Mr Lachlan Calder Ms Lisa Pieropan Mr Paul Mameghan Ms Sara Cardeira
Tintern Grammar - Secondary	Mrs Anthea Watkins Mrs Lanna Derry
Traralgon College - East Campus	Mrs Gayatri Vazirani
Trinity Grammar School - Junior	Mr Ray Drake
Viewbank College	Mr John Patterson Ms Tracy Reynolds
Wesley College - Junior Campus	Mr Blair Odom
Woodleigh School	Ms Suzanne Lampe Mr Mark Rickard Mrs Michelle Vella

Pre-service teacher judges

The University of Melbourne

Ozlem Alpcan
Belinda Banaszak
Julian Bluett
Kimberley Bruce
Jacob Daffy
Theo Daglas
Ashley Dangerfield
Edward Elder
Yui Fu
Adilah Haque
Nathan Harris
Emily Hocking
Xinyu Long
Madeleine Matheson
Caelum Mero
Caroline Padgham
Jiahui (Kristine) Pan
Josephine Phillips
Zedi Sha
Nicole Smith
Leo So
William Tan-Orders
Navneet Thind
Zoe White
Eleanor Yorke

RMIT

Erin Morgan
Tara Alexander

Committee members needed for 2017

The STS committee urgently needs new members for 2017. Without this volunteer committee the competition cannot operate. There are many benefits to be gained by joining the committee - you will be helping ensure STS continues to run, you will be making an active contribution to your profession, you will gain insight into how the competition operates and you will gain personal satisfaction from working with a group of dedicated science professionals.

For more information about the STS Committee go to www.sciencevictoria.com.au/sts/stscommittee or contact STAV: stav@stav.vic.edu.au; phone 9385 3999

STS Coordinator Reports

Computer Programs (Games and Simulations)

Section Coordinators: Mark Williams & Anne-Marie Williams

Many keen and excited students with innovative and interesting entries ensured judging day, at MLC, got off to a lively and enlightened start. The judges enjoyed a great variety in the ideas and concepts presented and were pleased to see so many students presenting Science in so many different ways. The variety in software from interactive webs, Unity through Python and VB.Net to GameMaker, and for the younger entrants, Scratch and animations using PowerPoint, was excellent.

The discussion of science, particularly droids, drones and bots was encouraging and the perceptivity and inventiveness of the students was remarkable and inspiring, as always. Particular mention goes to the many who prepared their presentations to be able to clearly explain both scientific detail and programming methods. The combination of science learning with technologically sophisticated methods is effective for now and augers well for endeavour in the future.

Thanks to MLC for providing a friendly and well suited venue, to Janice at STS for her organisation, to the judges for their illustrious assistance and to the students for furthering the cause and path of science.

Picture Story Books (Creative Writing) – Lower Primary, Middle Primary and Upper Primary divisions

Section Coordinator: Judith Sise

I am always amazed at the inventiveness of primary students' Science Talent Search entries in the creative writing section. This year's topic of DRONES, DROIDS AND ROBOTS had a certain childish appeal but I had thought that implanting the science into a picture story book may be challenging. However, the students again surprised me with their entries. "The Best Robot Ever" proved the most popular of the four topics and this was the most noticeable choice for the Lower Primary students. "Help Me", favoured by the Upper Primary students, was a close second. The number of students entering this section was slightly down on previous years. Students generally followed the criteria but there is an increasing number of students laminating their entries and using thick paper or cardboard for their stories. The use of spiral bound booklets and thick, cardboard folders has made for weighty and awkward packing problems, creating a costly postage bill. The entries are mailed to judges across the city and country Victoria and this is made easier when students follow the guidelines and meet the set criteria. Certainly, many students who have been awarded Major and Minor Bursaries by the judges met these criteria. This brings me to the wonderful team of judges who receive entries in mid July with a note to complete judging within the next 14 days. Well done, judges, for a magnificent job and for always commenting positively on the creativity of the stories and the

enjoyment of reading students' entries. Finally, I encourage students to keep writing and illustrating. While I have not personally met most students, I feel I know some students who have entered many times throughout their primary years and I have enjoyed observing their writing and science maturation.

Working Models and Inventions – All divisions

Section Coordinators: Janice Teng, Maureen Frith & Manju Mohandoss

The Working Models category is an exciting section which inspires students to explore a scientific principle or idea. Usually this translates to a design and construction of a working model to demonstrate a particular scientific theory and/or principle. Students can also recreate a scaled model of an existing invention and explain the science behind their project.

The Inventions category encourages students to explore their creativity in designing and constructing either their own original invention to solve a problem, or making an innovation and/or improving on an existing invention for new or existing devices. It is important that students explore their design and redesign in the development of their invention. Inventions must be an original concept, and students should research that their innovation has not been previously explored.

In addition, we would like to encourage students to include more diagrams of their model/invention for their design brief in the report. Students should explain how their device has changed as they were building and developing it, with several diagrams of their prototypes. Diagrams should be labelled describing how the science applies to their device.

Students interested in the Inventions section may want to explore the resource links in 'The New Inventors' ABC website. This year, our Inventions Major and Minor winners are also eligible for entry in the BHP Billiton Science and Engineering Awards, in the Engineering category.

Many students are inspired by the year's theme, but we would like to remind students that in Working Models and Inventions, they do not have to be limited to the theme and can be creative as well as pursuing their own interests in any aspect of Science!

2016 entries included many droids and robots drawing on the theme, such as the 'Autonomous thermal imagery equipped quad-copter for border patrol applications'; 'Robotic Insect'; 'BioBot – Following the Light' and 'Arduino Based Gesture Copying Robotic Hand'. In addition, we saw several hydraulic arms and some interesting projects such as 'Synth-etic'; 'Functions of a Nephron'; 'Bronchial Assistance Machine'; 'Coffee Cup Project' and 'S.A.W.R.'.

Students are reminded that if they are re-entering a project, they must clearly show in their model/device and report all the new modifications and/or improvements made from their previous entry.

Congratulations to all the bursary winners of the Working Models and Inventions. This year there were 26 Major



bursaries and 55 Minor bursaries awarded in the Working Models section, and, 13 Major bursaries and 16 Minor bursaries awarded in the Inventions section.

We would also like to commend all entrants in the Working Models and Inventions as we appreciate the amount of effort and persistence required to achieve a working device from their design.

We would like to thank Methodist Ladies' College for hosting our Judging Day, Penny Tayler, Miriam Beasy and all the staff and students who were essential in the set up and running of the day. Our appreciation and thanks also go to all the judges who provided time and expertise to listen and speak to our student entrants, giving them valuable feedback and a richly rewarding experience.

Posters-Scientific Wallcharts – Lower Primary, Middle Primary and Upper Primary divisions

Section Coordinator: Ann Pisarevsky

Congratulations to all those students who made the effort to compete in the poster section of Science Talent Search.

This year 258 posters were entered with 102 from upper primary, 104 from middle primary and 52 from lower primary. Of those students who entered the lower primary section 5 received a major bursary and 10 received a minor bursary. In the middle primary section 10 students received a major bursary and 20 received a minor. As for upper primary, the same number of students as in middle primary received awards.

Students were asked to address one of the topics given either Robots in Space, Industrial Robots, Drones Droids or Robots in the home or Is it a bird? Is it a plane? No it's.... The majority of students chose Robots in Space.

The judges felt that most posters were well set out and presented a good understanding of the scientific content relating to the topic. There were, however, a number of posters that did not comply with the guidelines. In some cases fabric or photographs were attached to the poster. It specifically states in the guidelines that only original diagrams are to be used and if using references from web sites time and date must be included in the reference.

Students should note that as Posters-Scientific Wallcharts are usually found attached to the wall what is written on the back is not judged. On the other hand students and teachers should make sure that entry details on the back of the poster are complete.

On Judging Day the judges were impressed by the enthusiasm of the students and their understanding of the concepts presented on their posters.

Many thanks to those who gave up their Saturday morning to be involved in the judging.

Posters-Scientific Wallcharts – Junior and Intermediate Divisions

Section Coordinator: Diana Veremciukas

The Judging Day on Saturday the 6th of August commenced at 8.00am and did not finish till after 1.30pm for the 40+ judges due to the large number of overall entries received. A big thank you to the judges for all their hard work with only a few breaks. Sincere apologies to the numerous parents who had to wait quite a while for their children's entries to be judged.

Thank you once again to Methodist Ladies' College for the use of their excellent facilities and to the ground staff who helped set up the rooms on the preceding Friday after school, and the MLC students who were on the registration desk on the Saturday morning.

The number of Junior entries received was one hundred and twenty-four. Of the entries submitted 15 won a Major bursary, 33 won a Minor bursary and 25 obtained a Merit certificate.

Twenty-nine Intermediate entries were received. One Major bursary was awarded, 9 Minor Bursaries were won, and 12 Merit certificates were obtained.

The favourite topic of entrants was "Robots in Space" at 32%. Next popular was "Help me..." at 27%, then "Intelligent Machines" at 24%. Least favourite was "Transhumanism" at 17%.

Posters based on "Robots in Space" covered some of the following: Robonauts, Alpha Centauri Robots, Opportunity Rover, Voyager One, Mars Sojourner Rover, Curiosity Rover, Engineering Robots for Space, Space Colonisation, Space Junk, Philae, S.T.A.R. , Lasers in Space and The Hubble telescope.

Posters based on "Help me..." included data on Roomba 980 robot, Spheros, Bionic Eye, Bionic Ear, Little Ripper drone, Crispr, Siri, Drones for Outdoor Recreation, Robotic Surgery, Drones for Medical Supplies, Drones for Farming, Robotic Firefighters, Robots for the Disabled, Film Industry Drones, Self-driving Cars, Guide Robots, Drone Patrols, Drones in Archaeology, Hubots and Zeno helping with Dementia and Autism, Robots for Enjoyment through the Ages, Fire Spotting Drones and Nanobots.

Posters based on "Intelligent Machines" covered some of the following: Intelligent Machines for Medicine, Agriculture, Engineering and Underwater, Dog Robots, Cleaner Robots, Hydro-electric Boat, Perpetual Motion Machines, Machines that Play Chess, Autonomous Mobile Robots, Self-driving Cars, Water Finders, Robotics, Beebots, Drones, Autonomous Military, Global Positioning Satellites, Robotics in Surgery and Wireless-charging Public Transport.

Posters based on "Transhumanism" included information on Electronic Prosthetic Limbs, Asimo, Medical Cryonics, Humanoid Robots, Human Microchipping, Nerves or Wires, Transcranial Direct Current Stimulation and Biomechatronics.

Students are reminded to write clearly the topic they have selected from the STS booklet on their poster and if their poster has attachments, it must be laminated. If the internet

STS Coordinator Reports

has been accessed, the site, date and time it was accessed must be noted in the bibliography at the bottom right corner. Diagrams must be hand or computer drawn and include a heading and labels. Diagrams and labels must be in black pen to make them clearer to see from a distance. Also, your written information should refer to the diagrams.

Congratulations to all students who entered the Poster section this year. A lot of posters were of an extremely high standard. We are already looking forward to the great research and presentation that students will display in their posters with help from their teachers and parents in 2017.

Science Photography – All divisions

Section Coordinators: Annette Atkinson, Mary Donaghy and Sonia Hankova

Topics chosen for entries into the Photography Section covered a wide range of interests and fields of Science. Many included themes from the natural environment. A few entries followed this year's theme of Drones, Droids and Robots, though that was not compulsory in this section.

The number of schools participating in the Photography Section was much the same as in 2015, though the number of entries was 20% less than in 2015. About half the entries received were in the Junior Division; that is, from students in Years 7 and 8.

About 90% of the students followed the required guidelines for presenting their entries as set out in the STS Handbook, available on-line. Many students took advantage of the opportunity to learn and practise photographic skills to capture and manipulate images. This included enlarging images to display the fine detail and colours, and viewing objects magnified by a microscope. Some entrants merged photos to show changes over time, including the movements of insects and chemical changes. Students are becoming more skilful at communicating scientific concepts with their images and they are to be commended for their dedication and hard work.

The section coordinators would like to thank the teachers from schools and students from Melbourne University who judged the entries. This year a group of highly dedicated teachers very generously gave their time to support each other, to judge the entries, to write encouraging comments for the entrants and, after prolonged and considered discussion, to select bursary winners and complete the task efficiently and effectively. Many were judging for the first time and were guided through the process by our regular judges.

We understand and appreciate the time commitment given by school coordinators, teachers and families in guiding and assisting students to complete their entries and ensuring that timelines are met. Thank you to the Science Talent Search coordinators in schools who encouraged their students to enter the competition and attended to the formalities required. Thank you to the teachers, family and friends, who assisted the entrants with suggestions and technical information, supported them in the preparation of their entries and transported them to the judging venue.

Thank you to all teachers and families who encourage an interest in science. Thank you to the Principal and staff of Parade College in Preston, for making the college facilities available and assisting in the smooth running of the Judging Day.

Experimental Research – Junior

Section Coordinator: Penny Tayler

The quality and variety of entries in the Experimental Research – Junior section this year was very high, and it was great to see such a high standard of work being submitted. The entries were on a broad range of topics, including: Analysis of Drone Flight, The Effect of the Weight of School Bags, and How Concentration and Memory are affected by Music, Light, Age, and Peppermint!

We received 151 entries this year, compared to 185 from last year, which was a slight drop in numbers. In all, 20 Major Bursaries and 33 Minor bursaries were awarded this year. The winning entries not only met or exceeded the requirements outlined in the handbook, but were also well designed with great analysis of data on an original topic. Congratulations to all of those who received bursaries.

I would like to thank all of the judges who gave their time to evaluate the projects, the teachers who encouraged their students to enter and of course all of the students who entered - I hope your interest in science continues!

Class Experimental Research Project

Section Coordinators: Sarah Shatford and Marisa Jarvis

The Class Experimental Research Project of the Science Talent Search is a unique section in that it is the only one that allows an entire class to work collaboratively on a common investigation topic. Through this section, students have the opportunity to become emerged in an investigation where they firstly develop and refine questions of an experimental nature. They then seek answers to their questions following an experimental research structure. On completion of their experimental work, they evaluate and reflect on the entire process and look at ways to extend their learning further. The culmination of the project is on Judging Day where they celebrate and communicate their learning to the wider community.

The criteria for this section is closely aligned with requirements of the Australian National Science Curriculum, in particular the Science Inquiry Strand. It also enables cross links between other areas of the curriculum, including Mathematics in collecting, recording and analysing data, English with report-writing and communication and some aspects of ICT where students may use spread-sheets to help create graphs of results. The Class Project Experimental Research also complements the programs of those primary schools using a PYP approach or an inquiry model.

Topics are not limited to the year's national science theme



so a project can be chosen that integrates well with a class overarching learning. A Class Project can then be a starting point for students to try group or individual entries in following years.

The number of entries for this section increased this year, with new and returning schools from both the government and independent sectors, which was fantastic to see. The variety of topics presented to the judges, however, was not as varied as past years. A significant number came from the biological content strand, which can in Primary be a little limiting. Some of the investigations explored beyond the biology strand included robotics, paper gliders, alternative energy and air pollution. We would encourage teachers considering entering the competition to allow students a little more freedom with their choices. While it can be a little overwhelming to hand over control, the best projects were the ones that were truly developed and led by the students. Their understanding of concepts was at a deeper level than relying just on the boundaries of the formal curriculum.

A most satisfying aspect as Class Project Coordinators is having the opportunity to speak with the students as they wait to present their work and again as they exit the judging room. Aside from a few nerves, the students had obviously loved being part of the learning journey and were very excited and eager to share their science learning. It is clear from many of the returning students, that this is one of their more memorable experiences each year. We always enjoy catching up with past students who come back year after year.

For Primary Teachers who are thinking of entering the Science Talent Search next year, please consider the Class Experimental Research Project. It is an easy way to involve all students. Remember, Science is often inexact and messy but often problems and mistakes can teach far more than obtaining perfect answers. It is the mess and the clarity that comes out of the mess that produces some amazing Science Projects and Scientists! Remember also that the best learning comes from students when they can make links beyond the task or initial topic. Have fun, allow mess, be open to problems and discussions. Good luck and we look forward to seeing more fantastic Science being communicated to us next year!

Games – All divisions

Section Coordinator: Leonie Lang

Educators have agreed that playing games is an excellent way to keep students engaged and improve their understanding. At the Games Judging Day at Wesley College, we saw numerous examples of students having fun playing games of their own devising which also helped them learn about science. Students enjoyed setting up their games and playing them with the science teachers who were the judges. We were also pleased to welcome student teachers from Melbourne University, who were mentored by the practising teachers. The judges used a rubric which closely followed the guidelines listed in the Science Talent Search Handbook.

This year 114 entries were judged, of which 37 were awarded bursaries. It is pleasing to see that teachers are making time available in the crowded curriculum for students to pursue very worthwhile projects such as STS.

The best entries were those that not only contained good science, but showed evidence that research was used to develop the game around finding solutions to real issues.

Although students entering the Games section are not obliged to follow the theme for the year, the topic of Drones, Droids and Robots was embraced enthusiastically by the students, especially at Primary levels, with games such as Battle of the Drones, Robot Challenge and Mission Dronactica. Students also showed concerns about conservation issues. Other popular topics included bushfires, floods, earthquakes and especially tsunamis. Escaping from danger makes a very exciting game. Tasks that promoted problem solving were highly regarded whereas “luck” squares in board games and recall of trivial facts did not score well. Overall, the judges were very impressed with the creativity shown by students to produce eye-catching and innovative games which were original and fun to play.

All this was made possible by the generosity of many science teachers who encouraged their students to enter the Science Talent Search, guided their research of the science ideas and inspired them to express their creativity in many different ways. Many of these teachers also gave hours of their free time to judge the entries. We thank the parents for supporting their sons and daughters in preparing their entries, bringing them to the venue and sharing with them the experiences of the day.

We also thank the students who put so much work into completing their entries and brought them to be judged. They have achieved much learning about science and shared their learning with the players of the games and with the judges.

Video/DVD Productions – All divisions

Section Coordinators: Jennifer Cutri and John Rainbow

This year's STS Video / DVD Productions revealed the outstanding effort from all entrants. The success of this Division can be attributed to the time and commitment from all involved. Congratulations to all who participated, from Lower Primary all the way through to Intermediate. We wish to extend a big thank you for the positive input from our volunteer teacher and pre-service teacher judges, the Parade College student assistant helpers and parents.

It was pleasing to see the high quality of work presented on the Judging Day, which took place at Parade College on Saturday August 6th 2016. A range of entries presented multiple video techniques, where the scientific understanding conveyed was impressive and informative. Upon judging and observing the Judging Day in progression, we were certainly impressed with the entries created and the rich scientific discussion occurring between the judges and participants.

STS Coordinator Reports

All participants should be proud of their entries, as they invested a lot of time and effort into their video production. The students demonstrated a passion for science, which was reflected through the detail of their entry and conversations held with the judges. We commend each entrant for their active involvement in the STS competition. Bursary winning entries were decided upon the unique utilisation of video techniques, along with evidence of research and a deep scientific understanding expressed. We congratulate all the entrants and eagerly wait to view more Video / DVD Productions in the 2017 STS!

Creative Writing - Junior Division

Section Coordinators: Raquella Neiger, Rachel Johnson and Amelia Strezbonski

It is always a pleasure to receive the new entries for the Science Talent Search and then read through them and realise the great achievements of the various levels of the students.

This year was no different, with entrants describing robots in space and many types of electrical fields and circuits that were coming alive as they were illustrating them in their reports or describing them to us live.

The Science Talent Search exists to help instil in the students a sense of love for learning and creativity related to scientific topics. When the students achieve those great heights of learning we love to acknowledge and recognise their great efforts and accomplishments.

Science is vast and each year we have a new topic to entice the curiosity in the students. This year with the topic of Drones, Droids and Robots, entrants were able to tap into not only their scientific knowledge that was known but also inspire further research into the topics of electricity and human-like robotics, and describe the many uses these machines would have in a futuristic society.

We look forward to seeing the many entries for 2017 and seeing what new great heights the students will strive for with a brand new theme in science; Future Earth.

Creative Writing – Intermediate Report

Section Coordinator: Lynden Fielding

The overall standard of Intermediate Creative Writing entries was again consistently high in 2016 and judging has continued to be very competitive. There was an increase in the number of schools with students participating in the Intermediate Division of Creative Writing. Fifty-seven entries were judged from students at twenty-six schools across Victoria. In comparison with 2015 entries, this was an approximately forty percent increase in the number of entries and thirty per cent increase in the number of schools. Rather than the choice of 2016 Drones, Droids and Robots topics being evenly spread across the topics as in 2015, this year the breakdown of topic choice was approximately four to three to three to one. Now a part of our everyday

lives appealed to thirty-seven per cent of entrants, Going where humans fear to tread and Servant or master each attracted twenty-seven per cent of writers, and nine per cent of students created stories on The Universal Declaration of Robot Rights.

Three Major Bursaries of \$60 and twenty Minor Bursaries of \$50 were awarded. This represents an increase from the previous year of just over fifty per cent in the total number of bursaries awarded, thanks to the generosity of sponsors and donors. The standard of entries was such that entries not achieving a Major or Minor Bursary gained a Merit Certificate, with hardly an exception.

It's important that students gain a thorough understanding of the section Guidelines page in the STS Handbook prior to commencing their writing project, as well as the additional page on How to cite references and write a bibliography. They can use the Entry guidelines as a self-assessment checklist. One judging discriminator continues to be the Completeness of referencing and bibliography, including for web sites the four requirements of name of article/source, date article placed on the web or last updated (if available), URL address, and date and time accessed. In 2016, there has been a strong relationship of the creative writing to the theme, and Originality and creativity generally scored highly. Major and Minor Bursary winning entries consistently scored nearly full scores for Presentation. The creative writing of students gaining Bursaries also stood out by including an appropriate amount of relevant scientific content and accurately integrating scientific ideas into original and creative stories. Importantly, Bursary winners followed the Entry guidelines. Their Appendix included at least five key science ideas and a two to three sentence explanation of them.

Well done to all the 2016 Year 9 and 10 authors on their creative writing achievement and congratulations to all who achieved Bursary and Merit Awards. A team of ten judges from schools across Victoria did a sterling job of evaluating and commenting on the entries, and we are most appreciative of their volunteer time and expertise. Many thanks as well to all the teachers for their valuable support and encouragement, and parents and other mentors, too.

Experimental Research – Lower Primary, Middle Primary and Upper Primary divisions

Section Coordinator: Pina Pikos

Congratulations to all students, teachers and parents who contributed to the Science Talent Search this year. We know how much time and effort it takes to participate in such a wonderful event. So, as much as the students put in their time and effort, we also acknowledge the work done by teachers and parents.

Experimental research enables students to promote and develop their skills in scientific practice. Participants worked through a hypothesis, from which they developed an aim, created methodology and collected data. They made observations, recorded and discussed their results and drew conclusions from the information they collected.



This year, many exceptional projects passed through our hands. There were many topics that covered the theme, 'Drones, Droids and Robots'. The Bursary winners had a clear experimental design and a thorough analysis and clear discussion of their results. These winners followed the guidelines set for the project.

A huge and special thank you goes out to the judges for their time and contribution to make this section, Experimental Research, an absolute success.

Experimental Research – Intermediate

Section Coordinators: Susan Tawia and Miranda McKellar

Authentic learning is real life learning. It is a style of learning that encourages students to create a tangible, useful product to be shared beyond the classroom. Authentic learning, particularly in Science, engages all the senses allowing students to create a meaningful and useful, shared outcome. They are real life tasks.

It is sometimes difficult for teachers to engage their students in authentic learning opportunities in an increasingly crowded curriculum. The Science Talent Search (STS) provides a perfect opportunity for authentic learning by encouraging independent, self-motivated project work amongst students of Science and giving students the opportunity to communicate their achievements to a wider audience. The STS also gives the general public an opportunity to see the quality of work being achieved in science by school students.

Seventy-seven entries were submitted to this year's Experimental Research (Intermediate) section of Science Talent Search. Pleasingly, the number of entries was 25% higher than last year, many were of a high standard, with just under a quarter receiving bursaries (8 major and 9 minor). Again, girls were very well represented in the competition this year. It was clear this year that many students thrived when given the opportunity to work on a real life project that inspired them personally.

Some of the topics of investigation entered this year included: Yoghurt made at home; Jumbled text and reading time; Does colour improve our memory?; Reaction and distraction and The cooling effect of engine oil on computer components. Not only did these entries involve creativity to come up with an original idea to investigate, but also the discipline required to undertake a controlled experiment, to document the process in detail and maturely discuss the results of their experiments.

It was a pleasure to coordinate the Experimental Research Intermediate section. We appreciated the opportunity to work with our many valued judges to discover the many students with talent and creativity who participated in this authentic learning opportunity this year. We acknowledge and thank the teachers who put in so much effort and the students who accepted the Science Talent Search Experimental Research challenge.

Experimental Research – Open division

Section Coordinator: Janice Youl

Senior students can benefit greatly from this opportunity - and congratulations to the 2016 students for their efforts, and we commend the teachers and parents for their support. We also kindly thank the sponsors and the judges for their efforts and feedback.

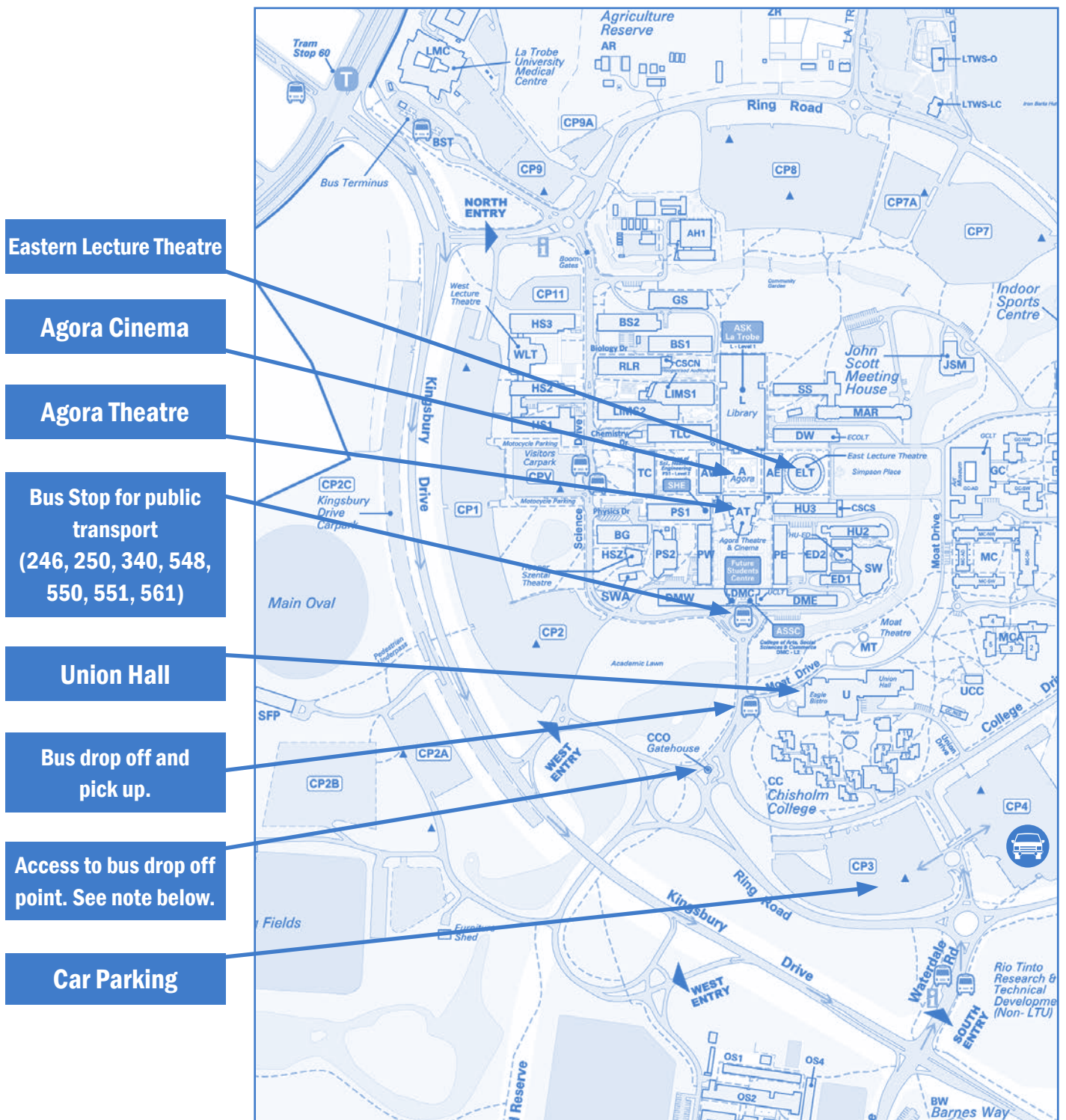
There were four Major Bursary winners and five Minor Bursary winners. Tintern Grammar (Secondary) provided seven winners which is a fantastic effort. Methodist Ladies College also shone with two bursary winners.

There was a range of topics that included topics on genetics, chemistry and physics. Ethanol was in three winning entries including the topic - "The effect of oxygen concentration on the efficiency of combustion of ethanol", so a safe approach was required! Agriculture also featured with topics including "The effect of acid deposition on wheat germination" and "An investigation of genetic determination of coat colour in Friesian cattle".

We look forward to 2017 research entries. Topics need not be over complicated. There needs to be clear experimental design, analysis, presentation of results and discussion. Sometimes students forget to mention errors or suggestions for improvement. The conclusion should be clear and relatively concise.

La Trobe University

Kingsbury Dve, Bundoora, Melways Ref. 19 G8



For access to Bus drop off point please tell security that you are dropping off/picking up students for the STS.

Special thank you

The following organisations are thanked for their donations and contributions to our expenses:

Australian Institute of Energy

Australian Skeptics

Australian Society for Biochemistry & Molecular Biology

Biology Teachers' Network Inc.

BHP Billiton Foundation in partnership with CSIRO and ASTA

Catholic Education Melbourne

Chemistry Education Association

Deakin University: Faculty of Science Engineering & Built Environment

Don Hyatt

Electric Energy Society of Australia Inc.

Entomological Society of Victoria Inc.

In Memory of Eileen Goodfield & Dorothy Dalton

In Memory of Noel Schleiger

Independent Primary School Heads of Australia

Ken Greateorex

La Trobe University: College of Science, Health and Engineering

Methodist Ladies' College

Minerals Council of Australia (Victorian Division)

Monash University: Faculty of Engineering

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Parade College (Bundoora & Preston)

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