Presentation Ceremony

Brighton Secondary School Concert Hall

Friday 22 September 2017

SA's largest Science Competition

Government of South Australia
Department for Education and Child Development

SASTA South Australian Science Teachers Association

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The South Australian Science Teachers Association would like to thank the sponsors of the SASTA Oliphant Science Awards.

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SIR MARK OLIPHANT 1901 - 2000

The South Australian Science Teachers Association have been privileged to have had Sir Mark Oliphant as our Patron for the SASTA Oliphant Science Awards since their inception in 1981.

Like many of the recipients of these awards, Sir Mark was born in South Australia and received his primary and secondary education in state schools here. An outstanding student, Sir Mark investigated a number of career pathways and eventually settled on the pursuit of Science at the University of Adelaide. Sir Mark showed a love of tinkering and invention from an early age and it was in the science laboratories in Adelaide that he started to make his own scientific apparatus. He was to become one of the leaders in the design and construction of revolutionary apparatus including particle accelerators used to investigate the structure and interactions of the nuclei of atoms.

In 1927 a scholarship took Sir Mark to the famous Cavendish Laboratories in Cambridge, UK, where he worked with Lord Rutherford, who was a pioneer in atomic physics.

Together with other great scientists including Fermi, Lawrence and Oppenheimer, Sir Mark created the brave new world of nuclear physics. His expertise in this area was to lead Sir Mark to the Manhattan Project in America and to his participation in the development of the first atomic bomb.

Sir Mark was always a champion of the peaceful uses of atomic energy and in 1937 accepted his first professorship as head of the Physics Department at Birmingham University where he was to continue to push the boundaries of knowledge of nuclear physics. In this year he was elected as a 'Fellow of the Royal Society'.

In 1955 Sir Mark's reputation as a scientist, research director and administrator were well established in the scientific community. This together with his declared interest in establishing world class educational research facilities in Australia led Sir Mark back to Australia at the request of the Government. In this year he founded the Research School of Physical Sciences at the newly established Australian National University in Canberra.

In the years after retirement from academic life Sir Mark became a household name in South Australia where he gave distinguished service as our State Governor.

A clear demonstration of his ongoing support of science and science education was provided to the science community in our state when Sir Mark agreed in 1981 to lend his name as Patron of the SASTA Oliphant Science Awards.

Sir Mark's legacy will live on in many ways not least through the thousands of students, teachers and members of the public who participate in these awards annually.

Of special significance is that Sir Mark, through his love of tinkering and invention, made the perpetual Oliphant Trophy himself.

PAST OLIPHANT SCIENCE AWARD WINNERS

1981 **David Tilley** – *Mount Gambier High School*
1982 **Andrew McDowell** – *Oakbank Area School*
1983 **Stella Miller** – *Oakbank Area School*
1984 **Vernon Wells** – *Marryatville High School*
1985 **Eleanor Rainsford** – *St Peters Collegiate Girls School*
1986 **David Messenger** and **Darren Kelly** – *Glenunga High School*
1987 **Darin Lovett** and **Edward Dunstone** – *Prince Alfred College*
1988 **Frank Trimboli** and **Nikolaos Vogiatzis** – *Underdale High School*
1989 **Simon Ratcliffe** – *Henley High School*
1990 **Kingsley Storer** – *Prince Alfred College*
1991 **John Sanderson** – *Pulteney Grammar School*
1992 **William Greenrod** and **Michael Ashley** – *Pulteney Grammar School*
1993 **Mark Hodson** and **James Jolly** – *Modbury High School*
1994 **Mark Hodson** – *Modbury High School*
1995 **Kyra Reznikov** – *Annesley College*
1996 **Jamie Messner** – *Prince Alfred College*
1997 **Erik Procko** – *Marryatville High School*
1998 **Erik Procko** – *Marryatville High School*
1999 **Paul Philps, Lydia Rofe** and **Kristina Miller** – *Marryatville High School*
2000 **Andrew Royal** – *Faith Lutheran Secondary School*
2001 **Alexander Cichowski** – *Brighton Secondary School*
2002 **Samuel Teck Ern Wong** – *The Norwood Morialta High School*
2003 **Samuel Teck Ern Wong** – *The Norwood Morialta High School*
2004 **Alyssa Fitzpatrick** – *Loreto College*
2005 **Konrad Pilch** – *St Peter's College*
2006 **Finn Stokes** – *Australian Science and Mathematics School*
2007 **Finn Stokes** – *Australian Science and Mathematics School*
2008 **Michael Huxley** – *St John's Grammar School*
2009 **Benjamin Harrison** – *Urrbrae Agricultural High School*
2010 **Michael Huxley** – *St John's Grammar School*
2011 **Nina Mao** – *Glenunga International High School*
2012 **Will Russell** – *St John's Grammar School*
2013 **Madeleine Lilburn** – *Loreto College*
2014 **Sarah Damin, Isabelle Greco & Bridget Smart** – *Wilderness School*
2015 **Kee-An Seet** – *Glenunga International High School*
2016 **Alexandra Stephenson** – *Adelaide Hills Home School Group*

A MESSAGE FROM THE CONVENORS

The Oliphant Science Awards are conducted annually by the South Australian Science Teachers Association, and are named in honour of the late Sir Mark Oliphant, our former Patron, and in his time an outstanding supporter and promoter of our student science competition.

The Oliphant Science Awards commenced in 1981, with Sir Mark personally hand crafting the trophies for the best boy and girl entrants. Since then student participation has continued to grow, and very many students throughout South Australia now participate. The wide range of interests and abilities of these students is catered for by the many categories and age groupings that we offer. Students can enter individually or, for many of the categories, participate as part of a group.

Sir Mark personally designed and crafted the titanium metal perpetual trophy that the annual winning student holds for one year. The trophy is then exchanged for an engraved medal at the following year's Award Ceremony.

The Oliphant Science Awards recognise outstanding student work with prizes in each age group and each category. Schools with many winning students are awarded a schools' prize. There are many prizes made available through the generosity of our Sponsors, who are an integral part of the success of our Awards. We acknowledge this support through their attendance at and participation in the Awards Ceremony. Without our sponsors we could not offer such a successful student science competition.

This year we are pleased to acknowledge as our Platinum and Gold Sponsors, the Department for Education & Child Development, Rowe Scientific and the Defence Science & Technology Group.

An essential component of the Oliphant Science Awards is the judging. SASTA acknowledges and thanks the large group of dedicated teachers and supporters of science education who have volunteered to judge the thousands of entries that students prepared for this year's competition. This contribution to SASTA and to science education is greatly appreciated.

The Oliphant Science Awards have once again been a great success thanks to the participation of thousands of students. We know that this participation happens with the encouragement and support given by very many parents and teachers, and we thank you all for this support, coming as it does at a time when student engagement in Science has

never been more critical. We also thank and acknowledge the hard work of the SASTA OSA Committee members and volunteers who make this project possible. And finally, we thank the SASTA Office staff for their dedicated commitment to the success of the Oliphant Science Awards. This is probably the largest project that our association undertakes annually.

Each of the eight Australian state and territory Science Teacher Associations offers student science competitions. At SASTA we are proud that in recent years, our Oliphant Science Awards has been the largest of these state competitions, a success built on the contributions of the many people listed above.

As with the other state and territory competitions, winners of the OSA Scientific Inquiry and Models and Inventions (Engineering) categories automatically progress to the finals of the national BHP Science and Engineering competition. Each year we also nominate a Teacher Finalist to the national BHP Science and Engineering Awards.

Whatever your role is, we thank you for your contribution to this wonderful project.

Peter Turnbull and Gerald Little
Oliphant Science Awards Convenors, 2017

SASTA PRESIDENT'S MESSAGE

The Oliphant Science Awards are one of the many activities organised each year by the South Australian Science Teachers Association to assist science education in schools and in our community. A knowledge and awareness of science in our daily lives is essential for all Australians in the twenty-first century. Learning science encourages students to develop a range of skills such as observation, prediction and communication as well as expanding their knowledge both within and between the diverse domains of science. The Oliphant Science Awards provide students with an opportunity to extend their scientific literacy, by showing interest in and understanding of the world around them, engaging in discussions about science, and being able to make informed choices about the environment and their own health and wellbeing.

SASTA's strength lies in our members, and in the many highly committed educators who volunteer their time out of school hours to ensure that we continue to serve the needs of all teachers of science. Our 498 members are drawn from all education sectors, teaching all year levels across the State. We are also fortunate to have a permanent secretariat to ensure the continuing smooth functioning of all aspects of our business.

Affiliation with the Australian Science Teachers Association (ASTA) and with the International Council of Associations for Science Education (ICASE) ensures that our science teachers are in touch with developments taking place in science education throughout the world. SASTA members also benefit from and contribute to national and international conferences, teacher exchange schemes, overseas or local study fellowships and access to a variety of science competitions for their students. SASTA provides professional learning opportunities to teachers within our State through facilitating workshops and conferences, and by its publications.

SASTA develops and maintains close links with employment authorities, businesses, industry and the tertiary education sector. Working closely with such organisations allows us to develop programs, activities and resources that reflect the nature of science in our community. SASTA greatly appreciates the support and sponsorship it receives from these partners and thanks them for sharing our commitment to effective learning in science.

Science, together with the technologies made possible by scientific research and development, is driving us through a period of rapid technological changes. These changes are, in turn, informing the debate about how the sciences are important, and how they should be taught in our schools. SASTA and our members are closely involved with revisiting and developing ideas about how best to ensure that all students become enthusiastic learners of science.

At SASTA we are proud of our contribution towards supporting learning for teachers and their students. We will continue our commitment to fostering an awareness and appreciation of the roles that science, technology and innovation play in our daily lives and in the future environmental and economic strength of the country.

Vanessa Fay
SASTA President

SASTA
South Australian Science Teachers Association

Department for Education and Child Development proudly sponsor

Government of South Australia
Department for Education and Child Development

South Australian Young Scientist Awards R-7 and 8-12

1st prize boy / 1st prize girl	$500 cash
2nd prize boy / 2nd prize girl	$250 cash
3rd prize boy / 3rd prize girl	$150 cash

The Department for Education and Child Development (DECD) has been a sponsor of the Oliphant Science Awards since their inception in 1981, and is delighted to continue this arrangement as a Platinum Sponsor in 2017.

The Oliphant Science Awards exemplify the inquiry based approach to the teaching and learning of Science that is so important in engaging our students, and in supporting the development of their scientific understanding and processes that leads to improved scientific literacy.

For many young people their experience of science at school sets a pattern that lasts throughout life. DECD is strongly committed to each and every student having the opportunity to experience the joy of scientific discovery, and to apply their natural curiosity to their world. All students are supported in developing the scientific knowledge, understandings and skills to make informed decisions about local, national, global issues, and to participate, if they so wish, in science related careers.

DECD has a major role in supporting our state's drive to ensure that our workforce is highly skilled in Science, Technology, Engineering and Mathematics (STEM). Through our DECD STEM Strategy we are ensuring all educators connect with the latest in teaching practices and the wide range of programs available to support their work.

The Department for Education and Child Development acknowledges the role that SASTA, through its many volunteers, plays in engaging so many students in Science inquiry and in the promotion of scientific literacy, and is proud to sponsor and support this important project.

2017 SASTA OLIPHANT SCIENCE AWARDS

Presentation Program Reception - Year 7

PRESENTATION PROGRAM – R-7

- **6:00pm** Seating of winners
- **6:15pm** Seating of audience and guests
- **6:30pm** Ceremony commences

THE MASTERS OF CEREMONY

Dr Claire Jessup
Dr Claire Jessup is the head of the Islet Biology Laboratory in the School of Medicine at Flinders University. Claire's research focusses on the islets of Langerhans in the pancreas, which contain the only cell type capable of producing insulin – the beta cell. By investigating the interactions between beta cells and other cell types, the Islet Biology Laboratory aims to identify new therapeutic targets for diabetes, obesity and islet transplantation. Claire was a Young Tall Poppy winner in 2011.

Dr Philip Gregory
Dr Philip Gregory is the Head of Gene Regulation in Cancer Laboratory at the Centre for Cancer Biology, University of South Australia. His research focusses on the leading cause of death for sufferers of breast cancer – the spread of cancer cells from the initial tumour to other organs. In particular, he studies the genetic processes which cause a cancer cell to transform to an aggressive and invasive cell type. Discovering the genetic reasons for this fatal transformation will allow Philip to develop therapies to target and prevent these changes and lead to better diagnosis and treatment of breast cancer. He was also a Young Tall Poppy winner in 2011.

Welcome: Vanessa Fay, SASTA President

Rowe Scientific Country School Award

Catholic Education SA Primary Schools Prizes

Australian Institute of Energy Prizes

CSIRO Education / CREST Prizes

Mobile Science Education Science Communication Prize

Nature Foundation SA Prize

Primary Industries Education Foundation Australia Prize

University of South Australia Sustainable Future Prize

Oliphant Science Category Award Winners

Sponsor Prizes: *To be presented during category award announcements*
Australian Institute of Physics Prize

Department for Education and Child Development
South Australian Young Scientist Awards

Announcements: *The Oliphant Trophy Winner 2017*

- **7:45pm** **Conclusion:** Vanessa Fay, SASTA President

Rowe Scientific Country School Award

Awarded to the country school with high participation across a wide range of categories.

Memorial Oval Primary School

Catholic Education SA Primary School Prizes

Awarded to the best two primary schools with high achievement and participation across a wide range of categories.

First **Walford Anglican School for Girls**
Second **Mawson Lakes School**

Australian Institute of Energy Prizes R-7

Awarded to the best entry at each year level with a sustainable generation and uses of energy theme.

R-2 **Megha Wijewardane** – Woodcroft College
Models and Inventions: You are my sunshine

3-5 **Giselle Wright** – Highgate School
Posters: Evolving Electricity

6-7 **Trishna Ramkumar** – Wilderness School
Posters: Evolving Electricity

CSIRO Education/CREST Primary Prize

Award for consistently high achievement and participation in the Scientific Inquiry and Models & Inventions categories.

Best CREST School **Mawson Lakes School**
Best Non-CREST School **Walford Anglican School for Girls**

Mobile Science Education Science Communication Prize R-7

Awarded to the entry with the best explanation of a scientific concept.

6-7 **Toby Trenwith** – Virginia Primary School
Multimedia: How Can We Make Pineapple Jelly?

Nature Foundation SA Prize R-7

Awarded to the most outstanding entry with a Nature Conservation theme.

6-7 **Inika Weber** – Mawson Lakes School
Scientific Inquiry: Mystery of the Disappearing Biodiversity

Primary Industries Education Foundation Australia Prize R-7

Awarded to the best entry with an investigations and or research component in agriculture.

6-7 **Michael Zhang, Victor Chey & Sophie Halikiopoulos** – East Marden Primary School
Computer Programming & Robotics: Locust Feast, Smart Farm

University of South Australia Sustainable Future Prize R-7

Awarded to the most inspiring entry highlighting the value of IT, Engineering & Environmental Science to a sustainable future.

3-5 **Ruby Blackwood & Isabelle Webb** – Mawson Lakes School
Models and Inventions: Sustainable House

R – 7 SPONSOR PRIZES

Australian Institute of Physics Prize R-12
Awarded to the most outstanding entry with a physics theme.

3-5 **Eugene Lee** – Mawson Lakes School
Models and Inventions: Magnetic Train

DECD Young Scientist Awards R - 7

First **Keagan Wallace** – Scotch College
First **Danae Angelopoulos** – Walford Anglican School for Girls

Second **Samarbir Singh** – St Andrew's School
Second **Toby Trenwith** – Virginia Primary School
Second **Clara Mills** – Bellevue Heights Primary School

Third **Priyanka Thavarajah** – Seymour College

Government of South Australia
Department for Education and Child Development

CATEGORY AWARD WINNERS – R-7

Computer Programming and Robotics

R – 2

1st Prize	Brody Bell	Burnside Primary School	Lego Sensor
2nd Prize	Saheli Dissanayake	Linden Park Primary School	The Game of Science
3rd Prize	Mai Le	Mawson Lakes School	Dinosaur Names

3 – 5

1st Prize	Samuel Weavers	East Adelaide School	The Human Immune System
2nd Prize	Kifaru Grasby	Bellevue Heights Primary School	Remote kinetic control of a robot arm with arduino
3rd Prize	Caleb Tang	East Marden Primary School	Greenhouse Robot
HC	Himachala Wijekoon	Magill School	Learning Planets in the Solar System
HC	Patrick Brinkworth	Woodcroft Primary School	Rescue Robot
HC	Sebastian Ireland	Westminster School	My Robot Recycler

6 – 7

1st Prize	Lukas Cody Otis Nading Nate Lomas	Mawson Lakes School	Periodic People
2nd Prize	Elliot Shine Ashwin Murugappa	Investigator College	A Humidity Sensing Automated Watering System
3rd Prize	Michael Zhang Victor Chey Sophie Halikiopoulos	East Marden Primary School	Locust Feast, Smart Farm
HC	Prathicksha Venkatesan	Walford Anglican School for Girls	Wireless Body Temperature Monitoring
HC	Mackenzie Barr	St Andrew's School	Automatic Cat Feeder

Crystal Investigations

R – 2

1st Prize	Peter Kalamboyas	St Peter's College	Temperature & Dissolving
2nd Prize	Eliza Scholz	Bellevue Heights Primary School	Sharp Edges, Flat Surfaces, Crystal Clear
3rd Prize	Shayla Clark-Mellet	East Torrens Primary School	Crystal Investigation
HC	Lex Hewitt	St Andrew's School	Crystal Investigation
HC	Seraphina Sun Karl Stals	St Andrew's School	Can our crystal grow to the required size in five weeks?

3 – 5

1st Prize	Lucas Barr	St Leonards Primary School	Growing the perfect crystal
2nd Prize	Evelyn Kelly Sophie Bain	Norwood Primary School	The Quality of the Final Crystal Depends on the Seed Crystal
3rd Prize	Jaida Eitel Skye Lou	St Leonards Primary School	Growing the perfect crystal
HC	Max Hewitt	St Andrew's School	Growing Alum Crystals in Dark
HC	Nejla Samic Bridie Stevens	St Leonards Primary School	To Grow Clear Alum Crystal
HC	Lachy Wyness	St Leonards Primary School	To Grow the Perfect Crystal

6 – 7

1st Prize	Danae Angelopoulos	Walford Anglican School for Girls	Crystal Investigation
2nd Prize	Ethan Lawrie	Cedar College	Size and Shape
3rd Prize	Leah Denneny	St Leonards Primary School	Alum Crystal
HC	Jalen Armstrong Kimonne Gumber	St Leonards Primary School	Alum Crystal

Games

R – 2

1st Prize	Raphael Storer	St Andrew's School	Tummy Ache
2nd Prize	Olivia Adcock	Highgate School	Caterpillar Game
3rd Prize	Mai Vuong	Mawson Lakes School	Solar System

3 – 5

1st Prize	Fraser Grigg	Bellevue Heights Primary School	Run for Your Life! A Game of Predators and Prey.
2nd Prize	Caitlin Caunce	Scotch College	Habitat Race
3rd Prize	April Wright Jenna Boyd	East Marden Primary School	Master Materials Hardware Store
HC	Mia Hoendervanger	St Thomas School	Crashed on Mars
HC	Christopher Pedicini	East Marden Primary School	Code of Science
HC	James Cross	St Andrew's School	Charged

6 – 7

1st Prize	Georgia Chadderton	Walford Anglican School for Girls	Infectious
2nd Prize	Taylor Daniel Jacob Dreyer	Westminster School	Dichotomy
3rd Prize	Lily McFetridge	Walford Anglican School for Girls	Waste to Water
HC	Prisha Anand	Richmond Primary School	Solar System Game
HC	Bella Milne	St John's Grammar School – Senior	Quizzical Flask
HC	Alyssa Harmer	Tyndale Christian School	Get Some Bones

Models and Inventions

R – 2

1st Prize	Megha Wijewardane	Woodcroft College	You are my sunshine
2nd Prize	Imogen Byrne	Crafers Primary School	Life Cycle of a Butterfly
3rd Prize	Alexander Lan	Magill School	Breathing
HC	Lyla Macpherson	Burnside Primary School	Sustainable Farm

3 – 5

1st Prize	Eugene Lee	Mawson Lakes School	Magnetic Train
2nd Prize	Aaliyah Hull Aimee Tomlinson	Aberfoyle Hub R-7 School	The Earth Spinner
3rd Prize	Tai Le	St Andrew's School	Timeline with Extinctions and Evolution - Prehistoric
HC	Tarlia Jolly	Aberfoyle Hub R-7 School	Pinball Physics
HC	Daniel Leah	Aldgate Primary School	How to generate clean renewable energy
HC	Abby Byrne	Crafers Primary School	Functions of the Brain
HC	Maya Hill Jessica Tilley	Hahndorf Primary School	Dolphin Safe Fishing
HC	Amali Mellor Ciara Canty Gracie Cook	Hahndorf Primary School	Thermal Solar Power

HC	Lewis Golding Oskar Caruso Matilda Harvey	Hahndorf Primary School	Portable Farm
HC	Samuel Hall Taylor Ho Fin McFadzean	Highgate School	How Science Saves Endangered Animals
HC	Emma Rowe Matilda Redshaw	Immanuel Primary School	The Happy Heart
HC	Aleksandar Govedarica Swen Stuart	Magill School	The Periodic Table
HC	Michelle Fernandez	Rose Park Primary School	Working Model of a Tornado
HC	Sam Van Der Linden	St Thomas School	Never Dry Self Watering System
HC	Nicolas Torres	St Thomas School	Tower Crane
HC	Bridgette Nespolon	St Thomas School	The Heart and Lungs: How Blood is Oxygenated

6 – 7

1st Prize	Mary Economos	Walford Anglican School for Girls	The Lever Principle
2nd Prize	Reece Franz	St Peter's Woodlands Grammar School	Compact Trebuchet
3rd Prize	Sienna Moreau	Walford Anglican School for Girls	Engineering Skyscrapers to be Earthquake Resistant
HC	Ruby VanWezel Sophie Wegener	Clapham Primary School	Machine Made with Cardboard
HC	Michael Zhang	East Marden Primary School	Care on the Go: WristBell
HC	Stephen Leonen Anastasia Georgopoulos	Mawson Lakes School	Hydraulic Dinosaur
HC	Trey Roberts Sharwin Shunmuganathan Sasuri Welegedara	Richmond Primary School	Water Xylophone
HC	Ben Cusack	St John's Grammar School – Senior	Model of an Ebola Virus
HC	Lucy Kelly	Westminster School	Animated Illusions

Multimedia

R – 2

1st Prize	Mia Fullerton	Glen Osmond Primary School	Claymation
2nd Prize	Blake Counsell	St John's Grammar School – Junior	The Science of Steam
3rd Prize	Indahla Rodosthenous	Highgate School	Household Rubbish and Recycling
HC	Zara Headon	St John's Grammar School – Junior	Where on Earth is all the water?

3 – 5

1st Prize	Luke Ashman Charlie Austin	Walkerville Primary School	Fabrics, Flames and Fire Retardants
2nd Prize	Clara Mills	Bellevue Heights Primary School	The Power House
3rd Prize	Daniel Whittaker	Walkerville Primary School	Marvin and Greg Presenting Science
HC	Violet Timberlake	Mitcham Primary School	Layers of the Earth
HC	Justin Evans	Highgate School	Science of the Rocket
HC	Natalie Wilson Isabelle Watson	Willunga Primary School	Ultimate Science
HC	Roxy Fiedler	Grange Primary School	Worm Tea
HC	Georgia Walters	Seymour College	What makes me "me"?

6 – 7

1st Prize	Zoe Beare	Bridgewater Primary School	Messy Hands: Who has the dirtiest hands, boys or girls?
2nd Prize	Toby Trenwith	Virginia Primary School	How Can We Make Pineapple Jelly?
3rd Prize	Piper Khouri	Walford Anglican School for Girls	Burst Mode Study of a Tennis Serve
HC	Claire Scarpin	Walford Anglican School for Girls	Bacteria's Home
HC	Keagan Wallace	Scotch College	We're on Thin Ice!
HC	Jett Stevens Oscar Wright	St Thomas School	The Chicken or the Egg Came First.
HC	Caitlin Donnellan	St Thomas School	Are you Bready for Some Mould?

Photography

R – 2

1st Prize	Zoe Wright	East Marden Primary School	Monarch Butterflies
2nd Prize	Nathan Ong	St Peter's College	The Art of Science
3rd Prize	Sophie Adcock	Highgate School	Animal Diversity
HC	Max Sublin	Coober Pedy Area School	Uniquely Australian
HC	Alexander Molga	St Peter's College	Biodiversity: A Canadian and an Australian Campground

3 – 5

1st Prize	April Wright	East Marden Primary School	The Art of Science
2nd Prize	Kiara Johnson	Aldgate Primary School	Movement in Nature
3rd Prize	Joanna Robinson	Wilderness School	Manifesting Motion
HC	Ceridwen Kellermann Wiliams	Dernancourt School R-7	Mushrooms
HC	Elijah Bojcevski	Immanuel Primary School	Scientific Movement
HC	Disha Narayan	Mawson Lakes School	Biodiversity
HC	Willem Koehne	St Andrew's School	The Art of Science: Salty Waves Sounds in Pictures
HC	Ann Nguyen	Wilderness School	Biodiversity

6 – 7

1st Prize	Danae Angelopoulos	Walford Anglican School for Girls	Scientific Transformations: Monarch Butterfly
2nd Prize	Kasimir Kellermann Williams	Dernancourt School R-7	Biodiversity – Mosses
3rd Prize	Olin Watters	Pulteney Grammar School	Scientific Transformations
HC	Jessica Hewitson	Walford Anglican School for Girls	Pollenation
HC	Ayesha Peerbaye	Westminster School	Beauty and Function of Feathers
HC	Charlotte Ujvary	Wilderness School	Movement – Light Painting
HC	Catrina Balestrin	Wilderness School	Liquid-Motion

Posters

R – 2

1st Prize	Autumn Loi	Walkerville Primary School	Scary Animals & Creatures
2nd Prize *equal*	Isabella Spagnoletti	Loreto College	Friends or Foes
2nd Prize *equal*	Sofia Spagnoletti	Loreto College	Friends or Foes
HC	Liam O'Connor	Highgate School	Reptiles
HC	Benjamin Law	Immanuel Primary School	Medical Imaging

HC	Moeed Ali	Norwood Primary School	Friends or Foes
HC	Siya Badgujar	St Aloysius College - Adelaide	Big & Small in Astronomy
HC	Dayan Govender	St Andrew's School	Big & Small in Astronomy

3 – 5

1st Prize	Giselle Wright	Highgate School	Evolving Electricity
2nd Prize	Bridgette Nespolon	St Thomas School	Medical Imaging
3rd Prize	Kate Daniel	Westminster School	Big & Small in Astronomy
HC	Ayla Macklin-Shaw	Magill School	Friend or Foes
HC	Zig Jonats	Norwood Primary School	Spiders
HC	Amber Woodhouse	Seacliff Primary School	Friends or Foes?
HC	Hayden McHugh	Westminster School	Biodiversity

6 – 7

1st Prize	Keagan Wallace	Scotch College	Medical Imaging
2nd Prize	Ceejay Leopardas	Plympton Primary School	Identifying the Elements
3rd Prize	Idhika Mahajan	Pulteney Grammar School	Radioactive Elements
HC	Keeley Paech	St Aloysius College - Adelaide	Radioactive Elements
HC	Alisha Nair	St Aloysius College - Adelaide	Friend or Foe? Nuclear Energy
HC	Anna Jose	St Aloysius College - Adelaide	Evolving Electricity - Evolving Energy
HC	Trishna Ramkumar	Wilderness School	Evolving Electricity

Science Writing

R – 2

1st Prize	Gabriel Truscott	Linden Park Primary School	The Svalbard Global Seed Vault
2nd Prize	Chloe Lambden	Walkerville Primary School	Chemistry is Like Cooking
3rd Prize	Dayan Govender	St Andrew's School	Chemistry is like cooking popcorn
HC	Minami Doubell	Seacliff Primary School	Chemistry in your Kitchen

3 – 5

1st Prize	Niya Singhal	Walkerville Primary School	Bella's Diary
2nd Prize	Samarbir Singh	St Andrew's School	Future Earth
3rd Prize *equal*	Clara Mills	Bellevue Heights Primary School	Kakapo - decline and rescue
3rd Prize *equal*	Shamika Gorey	Grange Primary School	Radioactive Waste
HC	Ryan Singh	Dernancourt School R-7	Theory of Relativity - A Review
HC	Gulnaaz Kaur	East Marden Primary School	Future Earth
HC	Sophia Tian	Highgate School	Responding to Environmental Change
HC	Priyanka Thavarajah	Seymour College	Chemistry is Like Cooking
HC	Alexander Nguyen	St Peter's College	Responding to Environmental Change

6 – 7

1st Prize	Lucy Fisher-Hackett	Walford Anglican School for Girls	Responding to Environmental Change
2nd Prize	Savin Dissanayake	Linden Park Primary School	Cooking with Savin
3rd Prize	Lachlan Bryson	Lockleys North Primary School	Good morning and welcome to the future.

Scientific Inquiry

R – 2

1st Prize *equal*	Ophelia Harding	Burnside Primary School	Are we flushing too much water down the toilet?
1st Prize *equal*	Liam Curtin Jessica Curtin	Grange Primary School	The Strongest Sense - Ears and Eyes
2nd Prize	Riyaan Dutta	Mawson Lakes School	Beeswax and its benefits
3rd Prize	James Angeloni	Scott Creek Primary School	Mammals of Scott Creek
HC	Eve Smith	Seacliff Primary School	Rainbow Flowers

3 – 5

1st Prize	Mahalia Coggins	Emmaus Christian College	A Study of Children's Colour Psychology.
2nd Prize	Priyanka Thavarajah	Seymour College	Does dissolving a substance in water make it more buoyant?
3rd Prize	Lucy Boardman	Stirling East Primary School	The Effect of Baking Powder on Cupcakes
HC	Lloyd Kennedy Elliot Kennedy Ben Shearwin	Colonel Light Gardens Primary School	Transpiration in Plants
HC	Samarbir Singh	St Andrew's School	Does the composition of water affect the growth of plants and if so, which one is ideal?
HC	James Cross	St Andrew's School	Paper Planes

6 – 7

1st Prize	Inika Weber	Mawson Lakes School	Mystery of the Disappearing Biodiversity
2nd Prize	Jay Mills	Bellevue Heights Primary School	Paper plane perfection
3rd Prize	Rishika Jain	Richmond Primary School	What is the value of 'g', the acceleration
HC	Toby Trenwith	Virginia Primary School	Investigation into The Setting of Pineapple Jelly

Congratulations to all the participants for their outstanding effort, innovative ideas and persistence in meeting scientific challenges. Projects submitted into the Scientific Inquiry and Models & Inventions categories of the Oliphant Science Awards are eligible for entry into the nation-wide BHP Billiton Science and Engineering Awards.

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We are proud to offer our support to SASTA and participating students.

Australian Government

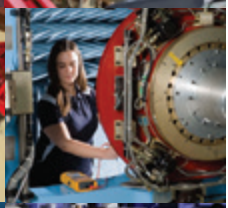
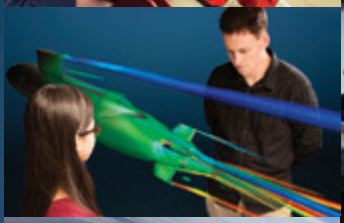
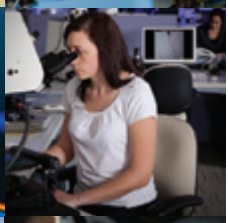
Department of Defence
Science and Technology

Congratulations to all entrants in the

Oliphant Science Awards





The Defence Science and Technology (DST) Group, a major sponsor of the Oliphant Science Awards, offers a rewarding career with the chance to work with many of Australia's leading scientists and engineers, access to some of the most advanced technology and facilities currently available, links with other national and international organisations, excellent career development opportunities, and travel.

In undertaking its research, the impact of Defence scientists, particularly on the electronics industry in South Australia, has been huge. DST is a major employer and innovator of electronics in South Australia.

DST in Adelaide can offer careers in computer science, information technology, electrical or electronic engineering, mathematics, behavioural or cognitive science and psychology.

DST is part of the Department of Defence. Its role is to ensure the expert, impartial and innovative application of science and technology to the defence of Australia and its national interests.

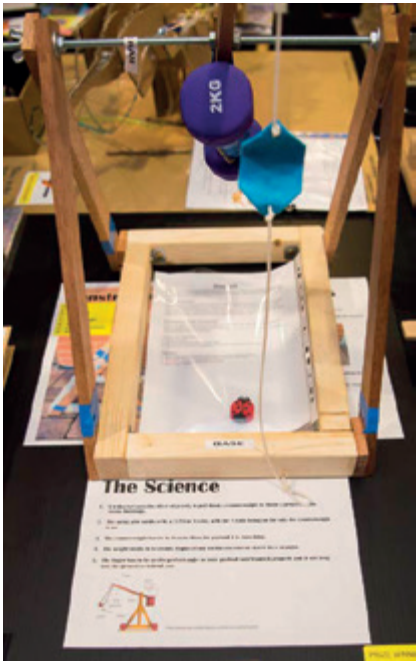
For more information on DST, call (02) 6128 6323.

DST GROUP

Science and Technology for Safeguarding Australia

2017 SASTA OLIPHANT SCIENCE AWARDS

Presentation Program
Years 8 - 12



PRESENTATION PROGRAM – 8-12

- **7:45pm** Seating of winners
- **8:00pm** Seating of audience and guests
- **8:15pm** Ceremony commences

THE MASTERS OF CEREMONY

Dr Claire Jessup
Dr Claire Jessup is the head of the Islet Biology Laboratory in the School of Medicine at Flinders University. Claire's research focusses on the islets of Langerhans in the pancreas, which contain the only cell type capable of producing insulin – the beta cell. By investigating the interactions between beta cells and other cell types, the Islet Biology Laboratory aims to identify new therapeutic targets for diabetes, obesity and islet transplantation. Claire was a Young Tall Poppy winner in 2011.

Dr Philip Gregory
Dr Philip Gregory is the Head of Gene Regulation in Cancer Laboratory at the Centre for Cancer Biology, University of South Australia. His research focusses on the leading cause of death for sufferers of breast cancer – the spread of cancer cells from the initial tumour to other organs. In particular, he studies the genetic processes which cause a cancer cell to transform to an aggressive and invasive cell type. Discovering the genetic reasons for this fatal transformation will allow Philip to develop therapies to target and prevent these changes and lead to better diagnosis and treatment of breast cancer. He was also a Young Tall Poppy winner in 2011.

Welcome: Vanessa Fay, SASTA President

Oliphant Science Category Award Winners

Sponsor Prizes: *To be presented during category award announcements*

Australian Society of Biochemistry & Molecular Biology Prize
Collison & Co Prize
RACI – Chemical Education Group Prize
University of Adelaide – Faculty of Science Prize
University of Adelaide – Faculty of Engineering Computer & Mathematical Sciences Prize

Australian Institute of Energy Prizes

CSIRO Education/CREST Prizes

Flinders University Science & School of the Environment Prizes

Mobile Science Education Science Communication Prize

Nature Foundation SA Prize

Primary Industries Education Foundation Australia Prize

University of South Australia Sustainable Future Prize

Defence Science and Technology Group Prizes

Rowe Scientific Country School Award

Department for Education and Child Development
South Australian Young Scientist Awards

The Oliphant Medal and **The Oliphant Trophy 2017**

- **9:30pm** Conclusion: Vanessa Fay, SASTA President

CATEGORY AWARD WINNERS – 8-12

Thank you to Rowe Scientific for sponsoring all of this year's 8-12 Category Award Winners and Encouragement Award (EA) Recipients

Computer Programming and Robotics

8

1st Prize	Cameron Coggins Joshua Woodley Liam Munir	Emmaus Christian College	Element Assassin
2nd Prize	Maximillan Soester Itay Yarom	Pulteney Grammar School	Lautus
EA	Dinan Perera	Prince Alfred College	Deliver Bot

9 – 10

1st Prize	Ned Wheaton	Pembroke School	A tool allowing intuitive implementation
2nd Prize	Ben Rawlings Cameron Betts	Glenunga International High School	RC Human Helmet
3rd Prize	Maia Hodge	Wilderness School	pH Probe
EA	Seran Perera	Prince Alfred College	Assistive Robotic Glove

Crystal Investigation

8

1st Prize	Sam Gorrie	Glenunga International High School	Crystal Clear
2nd Prize	Isabella Zacest	Walford Anglican School for Girls	Crystal Investigation
3rd Prize	Josephine Oehler	Seymour College	Investigating Crystal Growth

9 – 10

1st Prize	Ella Anderson	Walford Anglican School for Girls	How temperature effects the growth of crystals
EA	Isaiah Walsh	Brighton Secondary School	Crystal Investigation

11 – 12

1st Prize	James Liang Jeff Teoh	Brighton Secondary School	Crystal Investigation
2nd Prize	Jamie (Ming Chih) Yu	Unley High School	Crystal Investigation
3rd Prize	Jeff Teoh James Liang	Brighton Secondary School	Crystal Investigation

Games

8

1st Prize	Dylan Worswick Timothy Naylor	Pembroke School	Sustain-Ability
2nd Prize	Georgia McDonald Caitlin Newstead	Walford Anglican School for Girls	Body of Knowledge
3rd Prize	Lily-Rose Spartalis	St Peter's Collegiate Girls' School	The Periodic Table Game
EA	Justin Chung Deavadarsham Sivasubramanian	Glenunga International High School	Substance X
EA	Jessie Anderson Jenny Davidson	St John's Grammar School - Senior School	Compound Rush

9 – 10

1st Prize	Amber Washington	Norwood Morialta High School	Race to Save the Planet
2nd Prize	Matthew Drown Ned Wheaton	Pembroke School	Space Race

EA	Sami Madlur Sebastian Amerl	Brighton Secondary School	Intergalactic Space Conquerors
EA	Juliette Smith Maddy Ryan	Mitcham Girls High School	Code Climber

Models and Inventions

8

1st Prize	Saskia Jonats Amelia Pudney	St Peter's Collegiate Girls' School	Bee Informed
2nd Prize	Daniel Hassan Matthew Button Jeremy Ninio	Pulteney Grammar School	The Sustainable Headquarters
3rd Prize	Bethany Burgess	Pulteney Grammar School	Torch Light Charger
EA	Ricardo Reynold Chapa	Emmaus Christian College	How to make a helicopter

9 – 10

1st Prize	Joshua Badger	Brighton Secondary School	Robotic Arm
2nd Prize	Amber Washington	Norwood Morialta High School	The Brachistochrone
3rd Prize	Madison Lacy	Walford Anglican School for Girls	Things That Go Click in The Sea
EA	Jaedh Rameezdeen	Norwood Morialta High School	Pumped Hydro for Storage of Renewable Energy

11 – 12

1st Prize	Idris Kellermann Williams	Glenunga International High School	Model of Citroen DS
2nd Prize	Oliver Sprey Enzo Rugai	Glenunga International High School	Holographic 3D viewer
3rd Prize	Heather Button	Urrbrae Agricultural High School	A Model Demonstrating the Principals of Decontamination

Multimedia

8

1st Prize	Caitlin Lam Krshna Shetty	Walford Anglican School for Girls	The Science of 3D Glasses
2nd Prize	Alexandra Chadderton Imogen Hussain Yike Ma	Walford Anglican School for Girls	The Effects of Alcohol on the Teenage Brain
3rd Prize	Ruby Sugars Lydia Swinburne	Emmaus Christian College	Solar System Rap
EA	Alannah Pham	Walford Anglican School for Girls	Space
EA	Sarah North Ava Gasparin Dana Oberdan	Walford Anglican School for Girls	The Science Behind Cloning

9 - 10

1st Prize	Madison Fleming Olivia Tsantes Simone Marchesan	Walford Anglican School for Girls	Let your taste buds do the talking
2nd Prize	Charley Kennedy-Dinan	St John's Grammar School - Senior School	Stages of Sleep
3rd Prize	Tiffany Gaze	Walford Anglican School for Girls	Earth: Best before 2050
EA	Sophie Malandris Ella Trigg Martina Theodorakakos	Walford Anglican School for Girls	What do you meme?
EA	Lucy Flood	Walford Anglican School for Girls	What if the world became vegetarian?

11 – 12

EA	Tahlia Newblack	Urrbrae Agricultural High School	Are ingredient labels accurate?

Photography

8

1st Prize	Jesse Kasehagen	Immanuel College	Uniquely Australian
2nd Prize	Rowan Wilson	Mitcham Girls High School	Uniquely Australian
3rd Prize	Josephine Oehler	Seymour College	Biomimicry - How Nature Has Transformed Science
EA	Callum Hillier Caleb Tonkin Daniel Forder	Emmaus Christian College	Biodiversity
EA	Ashlee Fauser	Mitcham Girls High School	Uniquely Australian
EA	Taylah Stallard	St John's Grammar School - Senior	Uniquely Australian

9 – 10

1st Prize	Isabelle Lilburn	Loreto College	Uniquely Australian
2nd Prize	Ella Bennett	Mitcham Girls High School	Uniquely Australian Animals
3rd Prize	Paris Kouparanis	Mitcham Girls High School	Biodiversity
EA	Syme Aftab	Glenunga International High School	Biodiversity in the Botanic Gardens
EA	Tori Hughes	Mitcham Girls High School	Movement. Dance.
EA	Courtney Mezzino	Mitcham Girls High School	The Art of Science
EA	Ryan Rutherford	St John's Grammar School - Senior	The Lifecycle of Movement

11 – 12

1st Prize	Idris Kellermann Williams	Glenunga International High School	Lichens in Tasmania
2nd Prize	Karolina Kocimska	Glenunga International High School	Movement

Posters

8

1st Prize	Alexandra Murphy	St John's Grammar School - Senior	Evolving Electricity
2nd Prize	Josephine Oehler	Seymour College	Nuclear energy - Friend or Foe
3rd Prize	Samantha Fielder	Mitcham Girls High School	Big and Small in Astronomy
EA	Keshavmitha Rajasekaran	Glenunga International High School	Friend or Foes: Robots

9 – 10

1st Prize	Madeleine Flapper	Loreto College	Evolving Electricity: A Timeline of Technology
2nd Prize	Amber Washington	Norwood Morialta High School	Evolving Electricity
3rd Prize	Tess Jantke	Glenunga International High School	Radioactive Elements
EA	Kristel Heuer	Southern Vales Christian College - Morphett Vale	Mercury and Jupiter compared to Earth
EA	Edward Angley	St John's Grammar School - Senior	Friend or Foes: Jellyfish

Science Writing

8

1st Prize	Bradley Daniel	Westminster School	Radioactive Waste
2nd Prize	Vasja Lazarevich	Walford Anglican School for Girls	Anaesthesia in the Past & Present
3rd Prize	Hannah Trezona	Emmaus Christian College	Chemistry is like cooking
EA	Emma Jenke	Concordia College	Should Medical Procedures be legalised to enhance
EA	Taehan Lim	Glenunga International High School	Hot Science a Century Ago

9 – 10

1st Prize	Anisha McGavigan	Walford Anglican School for Girls	Chemistry is Like Cooking
2nd Prize	Frederick Pincombe	Glenunga International High School	Radioactive Waste

3rd Prize	Reema Madike	Wilderness School	Radioactive Waste
EA	Madeleine Flapper	Loreto College	Radioactive Waste
EA	Kim Jolly-Vivian	Modbury High School	Is there a future in food?
EA	Ruby Stuart	St John's Grammar School - Senior	Future Humans
EA	Sarah Thomson	Walford Anglican School for Girls	Science 100 years ago: Einstein
EA	Alana Commons	Wilderness School	Radioactive Waste

11 – 12

1st Prize	Medhir Kumanat	Glenunga International High School	Year 11-12 Investigation
2nd Prize	Chidiuso Ajaero	Concordia College	Old Solutions to New Problems
3rd Prize	Carla Ceravolo	Mary MacKillop College	Future Earth-Cultured Beef
EA	James Liang	Brighton Secondary School	Future Earth: The Future of AI

Scientific Inquiry

8

1st Prize	Jamie Smith	Emmaus Christian College	Lettuce Wires Conductivity
2nd Prize	Ines Hastings	Walford Anglican School for Girls	How Different Additives Effect Mushroom Growth
3rd Prize	Jhanavi Patel	Our Lady of the Sacred Heart College	The Intensity of Light in Different Temperatures

9 – 10

1st Prize	Sophie Davidson	Walford Anglican School for Girls	Does a picture tell 1000 words?
2nd Prize	Eleanor Edwards	Cornerstone College	Biofilms
3rd Prize	Nicola Lieff	Mitcham Girls High School	Do Mobile Phones Effect Scientific GPS Precision?
EA	Millie Corbett	Emmaus Christian College	Whether music affects a human's physical endurance

11 – 12

1st Prize	Giang Le	Glenunga International High School	Effect of inhibitors on antibiotic resistance.
2nd Prize	Heather Button	Urrbrae Agricultural High School	An Investigation into Various Water Treatment Options
3rd Prize	Jessica Sidwell Madeleine Lamont	Riverton and District High School	Assessment of water quality in the Mid North Region
EA	Idris Kellermann Williams	Glenunga International High School	Effect of sound intensity on plant growth
EA	Clare Edgecombe	Urrbrae Agricultural High School	Urban Wetland Health

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8 – 12 SPONSOR PRIZES

Australian Society of Biochemistry & Molecular Biology Prize R-12
Awarded to the most outstanding entry with a biochemistry or molecular biology theme.

8 **Vasja Lazarevich** – Walford Anglican School for Girls
Science Writing: Anaesthesia in the Past and Present

Collison & Co Prize R-12
Awarded to the entry with the most inventive design.

9-10 **Amber Washington** – Norwood Morialta High School
Games: Race to Save the Planet

RACI – Chemical Education Group Prize R-12
Awarded to the most outstanding entry with a chemistry theme.

8 **Cameron Coggins & Joshua Woodley** – Emmaus Christian College
Computer Programming and Robotics: Element Assassin

University of Adelaide: Faculty of Sciences
Awarded to the most outstanding entry highlighting the benefits of scientific research to the community.

11-12 **Heather Button** – Urrbrae Agricultural High School
Models and Inventions: A Model Demonstrating the Principals of Decontamination

University of Adelaide: Faculty of Engineering Computer & Mathematical Sciences
Awarded to the most outstanding entry with an engineering, mathematical or computing theme.

11-12 **Idris Kellermann Williams** – Glenunga International High School
Models and Inventions: Model of Citroen DS

Australian Institute of Energy Prizes 8-12

Awarded to the best entry at each year level with a sustainable generation and uses of energy theme.

8 **Dylan Worswick & Timothy Naylor** – Pembroke School
Games: Sustain-Ability

9-10 **Amber Washington** – Norwood Morialta High School
Poster: Evolving Electricity

CSIRO Education/CREST Secondary Prize

Award for consistently high achievement and participation in the Scientific Inquiry and Models & Inventions categories.

Best Non-CREST School **Glenunga International High School**

Flinders University Science Prize 8-12

Awarded to the outstanding research-based entry in science.

9-10 **Sophie Davidson** – Walford Anglican School for Girls
Scientific Inquiry: Does a picture tell 1000 words?

Flinders University – School of the Environment Prize 8-12

Awarded to the most inspiring entry covering an environmental issue in South Australia.

8 **Bradley Daniel** – Westminster School
Science Writing: Radioactive Waste

Mobile Science Education Science Communication Prize 8-12

Awarded to the entry with the best explanation of a scientific concept

8 **Bradley Daniel** – Westminster School
Science Writing: Radioactive Waste

Nature Foundation SA Prize 8-12

Awarded to the most outstanding entry with a Nature Conservation theme.

9-10 **Amber Washington** – Norwood Morialta High School
Games: Race to Save the Planet

Primary Industries Education Foundation Australia Prize 8-12

Awarded to the best entry with an investigations and or research component in agriculture.

9-10 **Amber Washington** – Norwood Morialta High School
Games: Race to Save the Planet

University of South Australia Sustainable Future Prize 8-12

Awarded to the most inspiring entry highlighting the value of IT, Engineering & Environmental Science to a sustainable future.

8 **Scarlett Griffiths** – Emmaus Christian College
Models and Inventions: Bee Hive

Defence Science & Technology Group Secondary Schools Prize

8-10

First Walford Anglican School for Girls
Second Glenunga International High School

11-12

First Glenunga International High School
Second Brighton Secondary School / Urrbrae Agricultural High School

Rowe Scientific Country School Award

Awarded to the country school with high participation across a wide range of categories.

Coober Pedy Area School

DECD Young Scientist Awards 8-12

First **Idris Kellermann Williams** – Glenunga International High School
First **Amber Washington** – Norwood Morialta High School

Second **James Liang** – Brighton Secondary School
Second **Josephine Oehler** – Seymour College

Third **Medhir Kumanat** – Glenunga International High School
Third **Heather Button** – Urrbrae Agricultural High School

Oliphant Medal

Presented by Ms Monica Oliphant to the 2016 Oliphant Science Awards winner.

Alexandra Stephenson – Adelaide Hills Home School Group

9-10 – Scientific Inquiry: Vibration Damping on the Cello by Cello Mutes

Oliphant Trophy

For outstanding science content.
Presented by Ms Monica Oliphant AO to the 2017 Oliphant Science Awards winner.

Amber Washington – Norwood Morialta High School

9-10 – Games: Race to Save the Planet

Congratulations to all the winners for 2017

and thank you all for your attendance.

The staff at Mobile Science Education **congratulates ALL entrants** in the Oliphant Science Awards.

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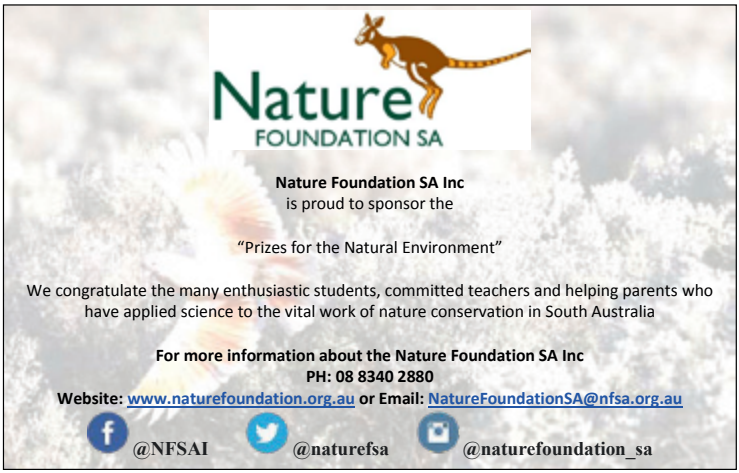

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Support for new schools and country schools:
Schools who have not participated in the past five years and country schools wanting assistance for postage of entries are eligible to apply for support.

Rowe Scientific is offering new schools the opportunity to enter the Oliphant Science Awards by providing up to $200 towards entry fees. Country schools will receive reimbursement for couriers/postage of entries to and from SASTA of up to $200 (with copies of original receipts).

Rowe Scientific will assist selected schools to a maximum amount of $200 each.

Applications close 8 June 2018. Apply now to have the opportunity of receiving a $200 entry fee subsidy and country schools to receive reimbursement for couriers/postage.

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raci Royal Australian Chemical Institute

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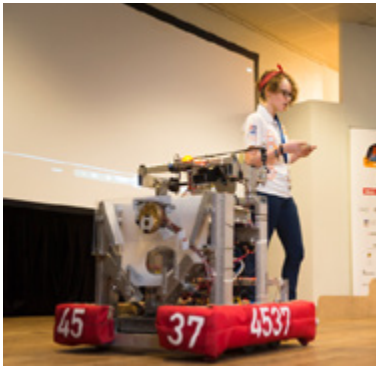
2017 SASTA OLIPHANT SCIENCE AWARDS

2017 OPEN DAY



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SASTA
South Australian Science Teachers Association

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