

Presentation Ceremony - Brighton Concert Hall

Friday 23 September 2016

# SA's largest **Science Competition**

2016

SASTA

OLIPHANT

SCIENCE AWARDS

SOUTH AUSTRALIAN SCIENCE TEACHERS ASSOCIATION



Government  
of South Australia

Department for Education  
and Child Development



# The South Australia 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 Philips, 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*

## 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, the Department of Primary Industries and Regions South Australia and the South Australian Research and Development Institute 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 Billiton Science and Engineering competition. Each year we also nominate a Teacher Finalist to the national BHP Billiton Science and Engineering Awards.

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

*Peter Turnbull and David LeCornu  
Oliphant Science Awards Convenors, 2016*

## 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 and understanding in 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 its publications and by facilitating workshops and conferences.

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

At SASTA we are proud of our contribution to assisting 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.



Karen Palumbo  
SASTA President





## Congratulations to all entrants in the Oliphant Science Awards

The South Australian Research and Development Institute (SARDI), a division of Primary Industries and Regions SA, and the Adelaide and Mount Lofty Ranges Natural Resources Management Board are delighted to be joint gold sponsors of the Oliphant Science Awards.

Agricultural production relies on sustainable natural resources. Science is a vital ingredient in understanding and applying sustainable use of natural resources in agriculture.

SARDI delivers world-leading research and development solutions to support ecologically sustainable and internationally competitive primary industries and regions.

It is a national leader in grains, seafood (wild fisheries and aquaculture), wine grapes, food and nutrition, climate adaptation, poultry, pork and animal welfare research.

The Adelaide and Mount Lofty Ranges Natural Resources Management Board supports landholders, communities and industry in sustainably managing our soils, water, and plant and animal biodiversity.

Science underpins this work with the aim of ensuring sustainable rural production and urban amenity, with environmental, economic and social benefits for the entire community.





Department for Education and Child Development proudly sponsor



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

1 <sup>st</sup> prize boy / 1 <sup>st</sup> prize girl	\$500 cash
2 <sup>nd</sup> prize boy / 2 <sup>nd</sup> prize girl	\$250 cash
3 <sup>rd</sup> prize boy / 3 <sup>rd</sup> 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 2016.

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.

Congratulations to award nominees and recipients, may your scientific futures be a bright and satisfying one speckled with those special 'Eureka!' moments.

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## Rowe Scientific New and Country Schools Incentive

### 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 \$200.00 towards entry fees.

Country schools will receive reimbursement for couriers/postage of entries to and from SASTA of up to \$200.00 (with copies of original receipts).

*Rowe Scientific* will assist selected schools to a maximum amount of \$200.00 each.

### Applications close 9<sup>th</sup> June 2017:

Apply now to have the opportunity of receiving a \$200.00 entry fee subsidy and country schools to receive reimbursement for couriers/postage.

### Apply now:

Please fill out the form online at [www.oliphantscienceawards.com.au](http://www.oliphantscienceawards.com.au)



# 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**

#### **Associate Professor Claudine Bonder**

Associate Professor Claudine Bonder is a vascular biologist at the Centre for Cancer Biology and her work investigates the intricate network of blood vessels that carry cells throughout our body. Her laboratory works with endothelial cells; the cells that line the blood vessels, and using cutting edge technology her team aims to better understand the role of endothelial cell in normal and disease. Recent advances in the Bonder laboratory include (i) the development of smart surface biomaterials to co-transplant endothelial cells together with insulin-producing islet cells to cure patients with diabetes and (ii) understanding how cancer cells transform into endothelial-like cells to enhance the blood supply for tumour growth.

#### **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 a Young Tall Poppy winner in 2011.

**Welcome:** Ms Karen Palumbo, SASTA President

#### **Rowe Scientific Country School Award**

#### **Catholic Education SA Primary Schools Prizes**

#### **CSIRO Education / CREST Prizes**

#### **Australian Grain Technology Prize**

#### **Australian Institute of Energy Prizes**

#### **Nature Foundation SA Prize**

#### **Primary Industries Education Foundation Australia Prize**

#### **Oliphant Science Category Award Winners**

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

Australian Institute of Physics Prize

Australian Society for Biochemistry and Molecular Biology Prize

#### **Department of Primary Industries and Regions and**

#### **South Australian Research and Development Institute R-7 Prize**

#### **Department for Education and Child Development**

*South Australian Young Scientist Awards*

**Announcements:** *The Oliphant Trophy Winner 2016*

- **7:45pm** **Conclusion:** Ms Karen Palumbo, 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 **St Andrew's School**  
Second **Walford Anglican School for Girls**

## Australian Grain Technologies Prize R-7

*Awarded to the best entry displaying science and innovation in agriculture.*

**6-7 Alexander Profiris** – Cabra Dominican College  
*Poster: Invertebrate Superheroes*

## 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 Ophelia Harding** – Burnside Primary School  
*Scientific Inquiry: Choosing the Best Ballpoint Pen for the Environment*  
**3-5 Sebastien Ireland** – Westminster School  
*Computer Programming and Robotics: SUNSEEK3R the Robot*  
**6-7 Nikhil Mendis** – Linden Park Primary School  
*Science Writing: Can We Live Without Coal?*

## Nature Foundation SA Prize R-7

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

**6-7 Teagan Powell** – Wilderness School  
*Multimedia: Commotion in the Ocean*

## Primary Industries Education Foundation Australia Prize R-7

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

**3-5 Eva Russell** – Burnside Primary School  
*Scientific Inquiry: Evaporation of Water – Can you stop it with another liquid?*

## 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 **Burnside Primary School**

## R – 7 SPONSOR PRIZES

### **Australian Institute of Physics Prize R-12**

*Awarded to the most outstanding entry with a physics theme.*

- 3-5 Aaron Walsh** – Highgate School  
*Scientific Inquiry: Does Adding Salt Change the Boiling Temperature of Water?*

### **Australasian Society for Biochemistry and Molecular Biology Prize R-12**

*Awarded to the best entry with a biochemistry or molecular biology theme.*

- 3-5 Emily Muggleton** – Mitcham Primary School  
*Scientific Inquiry: The Effect of Sugar Alternatives on Yeast Growth*

## **Dept of Primary Industries & Regions South Australia & South Australian Research & Development Institute Prize R-7 Prize**

*Awarded to the best entry with a sustainable use of natural resource in agricultural theme.*

- 6-7 Larissa Berginetti** – St Aloysius College  
*Poster: Invertebrate Superheroes*



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## **DECD Young Scientist Awards R - 7**

- First **Toby Trenwith** – Virginia Primary School  
First **Caitlin Wood** – Adelaide Hills Home School Group
- Second **Benny Woodrow** – Stirling East Primary School  
Second **Chloe Mickel** – Virginia Primary School
- Third **Joshua Wright** – Linden Park Primary School  
Third **Amelia Pudney** – St Peter's Collegiate Girls' School



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## CATEGORY AWARD WINNERS – R-7

### Computer Programming and Robotics

#### R – 2

1<sup>st</sup> Prize Ansh Tiwari Prince Alfred College – Prep School Guide Dog

#### 3 – 5

1<sup>st</sup> Prize Sebastian Ireland Westminster School SUNSEEK3R the Robot  
 2<sup>nd</sup> Prize Michael Zhang East Marden Primary School Press and Talk Call Bell  
 3<sup>rd</sup> Prize Jasper Yeend Scotch College Periodic Table Wizz Quiz  
 HC Lachlan Vandenbrink Hallett Cove School Lachlan's Computer Game  
 Daniel Surmon  
 HC Max Wang Linden Park Primary School DMM Game  
 Morgan Young  
 HC Mackenzie Barr St Andrew's School Line Following Cargo Bot

#### 6 – 7

1<sup>st</sup> Prize Benny Woodrow Stirling East Primary School Evolve or Die  
 2<sup>nd</sup> Prize Kern Mitchell Colonel Light Gardens Primary School Robotic Sprinkler  
 3<sup>rd</sup> Prize Alex Graham Colonel Light Gardens Primary School Atom Quest  
 HC Madeleine Bardy Walford Anglican School for Girls L.A.B.S.A.F.E.  
 Itay Yarom Pulteney Grammar School

### Crystal Investigations

#### R – 2

1<sup>st</sup> Prize Yasmin Zarrabi St Andrew's School  
 2<sup>nd</sup> Prize Peter Kalamboyas St Peter's College  
 3<sup>rd</sup> Prize *equal* Ellis Canning Immanuel Primary School Crystal Investigation  
 3<sup>rd</sup> Prize *equal* Anika Hiriyanna St Andrew's School  
 HC Jessica Curtin Grange Primary School  
 Liam Curtin  
 HC James Cross St Andrew's School Crystal Investigation  
 HC Georgina Ross Walford Anglican School for Girls Does the type of water effect  
 Cristina Parletto the growth of Alum crystal?

#### 3 – 5

1<sup>st</sup> Prize Lewis Bennet St Leonards Primary School  
 2<sup>nd</sup> Prize Ariana Johnson Aldgate Primary School  
 3<sup>rd</sup> Prize Albertina King St Leonards Primary School  
 HC Abbey Groves Good Shepherd Lutheran School  
 HC Keira Sanchez Good Shepherd Lutheran School  
 HC Willem Koehne St Andrew's School  
 HC Eva Williams St Leonards Primary School  
 Erin Jones  
 HC Lucas Barr St Leonards Primary School

#### 6 – 7

1<sup>st</sup> Prize Freya Cooper Walford Anglican School for Girls Crystal Investigation  
 Jade Elsdon  
 Lucy Threadgold  
 2<sup>nd</sup> Prize Amelia Duval Eastern Fleurieu R – 12 School  
 Abbey Clamp  
 3<sup>rd</sup> Prize Scarlett Wisman Walford Anglican School for Girls My Crystal Investigation

HC	Georgia Devy Karoline Steiner	Glen Osmond Primary School	
HC	Ilya Aidman	Grange Primary School	
HC	Lachlan Bryson	Lockleys North Primary School	Crystal Crusade

## Games

### R – 2

1 <sup>st</sup> Prize	Jonathan Pontikinas	Linden Park Primary School	Mars One
2 <sup>nd</sup> Prize	Zara Headon Michelle Sun	St John's Grammar School - Junior	Think. Recycle. Save
3 <sup>rd</sup> Prize	Floyd Rosewarne Phoebe Rosewarne	Dernancourt School R - 7	Game
HC	Trisha Shah	East Marden Primary School	Science Knowledge Game
HC	Samuel Chowis	Plympton Primary School	

### 3 – 5

1 <sup>st</sup> Prize	Caitlin Cauce	Scotch College	Bin It and Win It!
2 <sup>nd</sup> Prize	Max Lintern	St Thomas School	The Everest Adventure Game
3 <sup>rd</sup> Prize <i>equal</i>	Rachel Lang	Highbury Primary School	
3 <sup>rd</sup> Prize <i>equal</i>	Charlie Sanderson Toby Hartmann	Westminster School	The Death of Dinosaurs
HC	Mia Suter	Aldgate Primary School	
HC	Abby Byrne	Crafers Primary School	Space Race
HC	Sophie Highet Lucinda Carney	Highgate School	Around the Reef
HC	Mia Knight Ruby Washbourne	Loreto College	Kids Feud
HC	Blaise Howes Caitlin Little Talia Herbst	St Andrew's School	Biome Explorers
HC	Maeghan Knott Juliana Lanzilli	St Andrew's School	Wiser than Owls
HC	Mia Peterson	St Thomas School	The Body Expert
HC	Isabella Rosser	Wilderness School	Animal Superheroes
HC	Jennifer Zhao Ashley Jones Charlotte Thomas	Wilderness School	Light Path

### 6 – 7

1 <sup>st</sup> Prize	Timothy Naylor Dylan Worswick	Pembroke School	New Life
2 <sup>nd</sup> Prize	Chloe Mickel	Virginia Primary School	Jelly Bean Science Machine
3 <sup>rd</sup> Prize	Evie Johnstone Olivia Manser Jessie Anderson	St John's Grammar School – Senior	
HC	Adomas Neocleous	Aberfoyle Hub R – 7 School	Adomas' Famous Science Quiz
HC	Kate Bullitis	Aberfoyle Hub R – 7 School	Power House
HC	Daniel O'Connor Ella O'Connor	Scotch College	Periodically
HC	Ella Hamilton Rajshree Upadhyaya	Walford Anglican School for Girls	Save The Species



## Models and Inventions

### R – 2

1 <sup>st</sup> Prize	Adam Marshall	Highbury Primary School	
2 <sup>nd</sup> Prize	Inder Cheema	St Andrew's School	Marble Run
3 <sup>rd</sup> Prize	Leo Bennier	Stirling East Primary School	Solar Powered Oven
HC	Lyla Macpherson	Burnside Primary School	Platypus Enclosure
HC	Skylar Farley	St Andrew's School	Fire Breathing Dragon
HC	Sawyer McLean	St Andrew's School	Mars Rover
HC	Dylan von Rischbieder	St John's Grammar School - Junior	Solar Powered Lighthouse
HC	Alexander Molga	St Peter's College	Crafty Catapults

### 3 – 5

1 <sup>st</sup> Prize	Luca Shin	St Peter's College	Cooling Hat
2 <sup>nd</sup> Prize	Adelaide Watt	Emmaus Christian College	What is a Syphon?
3 <sup>rd</sup> Prize <i>equal</i>	Phoebe Wood	Adelaide Hills Home School Group	Bird Study
3 <sup>rd</sup> Prize <i>equal</i>	Julius Jacobson		
	Alex Monro	Highgate School	Geology Model
	Jackson Boothe		
HC	Lian Mitchell	Colonel Light Gardens Primary School	
HC	Mason Ling	Glen Osmond Primary School	The Street
HC	Toby Hulme	Good Shepherd Lutheran School	The Ultimate Shark Model
	Savitha Lamahewa		
HC	Harry Nielsen	Mawson Lakes School	Chair Tilt
	Billy Perifanos		
	Bethany Hunter		
HC	Chelsea Costin	Mawson Lakes School	Eiffel Tower
	Brielle Carpenter		
HC	Nitin Kollakombil	Mitcham Primary School	
HC	Blake Taylor	Scotch College	Electro-magnetic Road
HC	Abigail Paterson	St Thomas School	My Model of the Human Hand
HC	Jamie O'Dea	St Thomas School	DNA: Making a Protein
HC	Lucy Barr	St Thomas School	Hover Board
	Eliza Cantinari		
HC	Labrini Psaltis	Walford Anglican School for Girls	The Heart Project
HC	Paige Equid	Wilderness School	Paige's Creation
HC	Sienna Davis	Wilderness School	

### 6 – 7

1 <sup>st</sup> Prize <i>equal</i>	Adam Black	Prince Alfred College – Prep School	Kiela – An Invented Language
1 <sup>st</sup> Prize <i>equal</i>	Joshua Wright	Linden Park Primary School	The Wind Tunnel
3 <sup>rd</sup> Prize	Felix Jolly	St Thomas School	How Does a Digital Camera Work?
HC	Jessica Bolzon	Walford Anglican School for Girls	Hydraulic Hand Model
HC	Madeleine Dalcin	Walford Anglican School for Girls	Water Cycle
HC	Isabelle Stuart	Walford Anglican School for Girls	Creating a Fresh Water Supply

## Multimedia

### R – 2

1 <sup>st</sup> Prize	Annika Ganesh	St Peter's Collegiate Girls' School	Plastic Pollution in Our Oceans
	Jamie Qiao		
2 <sup>nd</sup> Prize	Indahla Rodosthenous	Highgate School	
	Helen Sun		
3 <sup>rd</sup> Prize	Darshbir Singh	St Andrew's School	Cracking a Life Code
	Samarbir Singh		

HC	Clara Mills	Bellevue Heights Primary School	See the World: Water Cycle
HC	Adison Ni Molly Liu Xuechen Han	Highgate School	Born of Hail

### 3 – 5

1 <sup>st</sup> Prize	Jett Stevens	St Thomas School	How the Opalised Plesiosaurus in the Museum was made
2 <sup>nd</sup> Prize	Jesse Weber	Mawson Lakes School	Water
3 <sup>rd</sup> Prize	Holly Timberlake	Mitcham Primary School	The pH Scale

### 6 – 7

1 <sup>st</sup> Prize	Toby Trenwith	Virginia Primary School	What Happens to 3D Printed Plastic?
2 <sup>nd</sup> Prize <i>equal</i>	Trinity Hong Hanayel Siddiqi	Wilderness School	Walking in the Sky, Way Up High
2 <sup>nd</sup> Prize <i>equal</i>	Krshna Shetty	Walford Anglican School for Girls	Why Does the Sky Look Blue?
HC	Teagan Powell	Wilderness School	Commotion in the Ocean
HC	Georgia Chadderton	Walford Anglican School for Girls	Bell's Palsy and Me
HC	Nihar Janjua Alexia Kanelos Kate Yoong	Walford Anglican School for Girls	The Chewing Gum Theory
HC	Lucy Percival Jaclyn Wilmot Victoria Beveridge	Wilderness School	Gravitational Waves

## Photography

### R – 2

1 <sup>st</sup> Prize	Harper Thomas	Walford Anglican School for Girls	What Colour Tells Us
2 <sup>nd</sup> Prize	Zoe Wright	East Marden Primary School	Form and Function - Feathers
3 <sup>rd</sup> Prize	Lex Hewitt	St Andrew's School	Microhabitats
HC	Hamish Donlan	St Andrew's School	Microhabitats
HC	Ava Cabot	St Andrew's School	Microhabitats
HC	Amelia Cavagnaro	Rose Park Primary School	Microhabitats
HC	Elaine Chen	St Aloysius College	What Colour Tells Us
HC	Samuel Coates	Scott Creek Primary School	Microhabitats
HC	Helena Krawec	St Aloysius College	How Water Travels Through a Leaf
HC	Finn McBurnie	Rose Park Primary School	Form and Function

### 3 – 5

1 <sup>st</sup> Prize	Catrina Balestrin	Wilderness School	Up in the Air!
2 <sup>nd</sup> Prize	Phoebe Wood	Adelaide Hills Home School Group	Microhabitats
3 <sup>rd</sup> Prize	William Lawes	Scotch College	Microhabitats
HC	Harry Bedford	Linden Park Primary School	Reflections and Refractions
HC	Aaron Cross	Eastern Fleurieu R-12 School	Science and Innovation in Agriculture
HC	Kasimir Kellermann Williams	Dernancourt School R-7	Microhabitats
HC	Oliver Lawes	Scotch College	Reflections and Refractions
HC	Pippini Moseley	Adelaide Hills Home School Group	Reflections and Refractions
HC	Rithkrithi Saravanan	Plympton Primary School	What Colour Tells Us
HC	Phoebe Wood	Adelaide Hills Home School Group	Reflections and Refractions

## 6 – 7

1 <sup>st</sup> Prize	Caitlin Wood	Adelaide Hills Home School Group	What Colour Tells Us
2 <sup>nd</sup> Prize	Jesse Kasehagen	St Peter's Woodlands Grammar School	Microhabitats
3 <sup>rd</sup> Prize	Josephine Oehler	Seymour College	Microhabitats
HC	Renee Bacchus	Grange Primary School	Microhabitats
HC	Joseph Bojcewski	Immanuel Primary School	What Colour Tells Us
HC	Lennon Gregory Thomas Allender Ryan Chapman	Para Vista Pre-school–7	What Colour Tells Us
HC	Anne-Marie Ildefonse	John Hartley School	Microhabitats – Places to Live
HC	Cameron Mills	Bellevue Heights Primary School	Microhabitats
HC	Ayesha Peerbaye Dishitha Dasireddy	Westminster School	Reflections and Refractions
HC	Zachary Whitfield	St Andrew's School	Reflections and Refractions

## Posters

### R – 2

1 <sup>st</sup> Prize	Saheli Dissanayake	Linden Park Primary School	
2 <sup>nd</sup> Prize	Priyanka Thavarajah	Seymour College	
3 <sup>rd</sup> Prize	Minami Doubell	Seacliff Primary School	
HC	Darshbir Singh	St Andrew's School	What Happens with Recycled Plastics
HC	Rowan Batra	Woodcroft College	What Happens with Recycled Plastics
HC	Emilia Centofanti	Walkerville Primary School	Numbers in Science
HC	Scarlett Flapper	Loreto College	Invertebrate Superheroes
HC	Dayan Govender	St Andrew's School	What Happens with Recycled Plastics
HC	Sam Hall	Highgate School	Drones in Action
HC	Taylor Ho	Highgate School	Numbers in Science
HC	Joshua Horsell	Highgate School	What Happens with Recycled Plastics
HC	Alexander Smith	St Andrew's School	Drones in Action

### 3 – 5

1 <sup>st</sup> Prize	Isabella Barton	St Thomas School	What Happens with Recycled Plastics
2 <sup>nd</sup> Prize	Dion Coleopy	Highbury Primary School	Designs to Survive Natural Disasters
3 <sup>rd</sup> Prize <i>equal</i>	Amelie Nespolon	St Thomas School	What Happens with Recycled Plastics
3 <sup>rd</sup> Prize <i>equal</i>	Megha Sannigrahi	Westminster School	Numbers in Science
HC	Mikha Susan Bijoy	Emmanuel Christian College	Numbers in Science
HC	James Chalubek	St Thomas School	Drones in Action
HC	Reilly Curran	Westminster School	Numbers in Science
HC	Geri Economides	Emmanuel Christian College	Numbers in Science
HC	Sebastien Ireland	Westminster School	Numbers in Science
HC	Oliver Lawes	Scotch College	Drones in Action
HC	Sachin McGavigan	St Peter's College	Using Radiation to Improve Health
HC	Alexander Nguyen	St Peter's College	Drones in Action
HC	Lily Oakeshott	Wilderness School	Numbers in Science
HC	Elijah Sandery	Linden Park Primary School	Invertebrate Superheroes
HC	Amy Wallace	Scotch College	Recycled Plastics
HC	Keagan Wallace	Scotch College	Drones in Action
HC	Maddie Ward	Immanuel Primary School	Invertebrate Superheroes

## 6 – 7

1 <sup>st</sup> Prize	Hriday Patel	Westminster School	The A-Z of plastic recycling
2 <sup>nd</sup> Prize	Larissa Berginetti	St Aloysius College	Invertebrate Superheroes
3 <sup>rd</sup> Prize	Zachary Whitfield	St Andrew's School	Using Radiation to Improve Health
HC	Alexander Profiris	Cabra Dominican College	Invertebrate Superheroes
HC	Grace Austin	Cabra Dominican College	Drones In Action
HC	Ella Beinssen	Wilderness School	What Happens with Recycled Plastics
HC	Eryn Mungar	Loreto College	What Happens with Recycled Plastics

## Science Writing

### R – 2

1 <sup>st</sup> Prize	Annika Ganesh	St Peter's Collegiate Girls' School	It Came From Outer Space
2 <sup>nd</sup> Prize	Samarbir Singh	St Andrew's School	Vaccines – Good or Bad?
3 <sup>rd</sup> Prize	Devesh Anavkar	Burnside Primary School	Vaccines – Good or Bad?
HC	Abigail Cheng	St Andrew's School	Bio Engineering
HC	James Cross	St Andrew's School	It Came From Outer Space
HC	Charlie Donaghey	St John's Grammar School – Junior	It Came From Outer Space
HC	Shamika Gorey	Grange Primary School	Vaccines – Good or Bad?
HC	Ansh Tiwari	Prince Alfred College – Prep School	Plants We Need for a Sustainable Future

### 3 – 5

1 <sup>st</sup> Prize	Kaiji Doubell	Seacliff Primary School	Plants We Need for a Sustainable Future
2 <sup>nd</sup> Prize	William Norman	St Thomas School	Can We Live Without Coal?
3 <sup>rd</sup> Prize	Jay Mills	Bellevue Heights Primary School	Is Anyone Out There?

### 6 – 7

1 <sup>st</sup> Prize	Bradley Daniel	Westminster School	Vaccines – Good or Bad?
2 <sup>nd</sup> Prize	Nikhil Mendis	Linden Park Primary School	Can We Live Without Coal?
3 <sup>rd</sup> Prize	Zachary Whitfield	St Andrew's School	Vaccines – Good or Bad?
HC	Lily Dunstone	Walford Anglican School for Girls	Vaccines – Good or Bad?
HC	Jack McDonald	Colonel Light Gardens Primary School	Chemistry of Sugars

## Scientific Inquiry

### R – 2

1 <sup>st</sup> Prize	Ophelia Harding	Burnside Primary School	Choosing the Best Ballpoint Pen for the Environment
2 <sup>nd</sup> Prize	Priyanka Thavarajah	Seymour College	Does Water Make Iron Rust?
3 <sup>rd</sup> Prize	Darshbir Singh	St Andrew's School	Observations of Randomness and Chaos in our Everyday Lives
HC	Lloyd Kennedy	Colonel Light Gardens Primary School	Observations of Randomness and Chaos in our Everyday Lives

### 3 – 5

1 <sup>st</sup> Prize	Emily Muggleton	Mitcham Primary School	The Effect of Sugar Alternatives on Yeast Growth
2 <sup>nd</sup> Prize	Eva Russell	Burnside Primary School	Evaporation of Water: Can you stop it with another liquid?
HC	Aaron Walsh	Highgate School	Does Adding Salt Change the Boiling Temperature of Water?

## 6 – 7

1 <sup>st</sup> Prize <i>equal</i>	Toby Trenwith	Virginia Primary School	What Conditions Weaken 3D Printing Plastics?
1 <sup>st</sup> Prize <i>equal</i>	Benny Woodrow	Stirling East Primary School	How to Light Up a Millipede's Day
2 <sup>nd</sup> Prize	Amelia Pudney	St Peter's Collegiate Girls' School	Heavy Boating
3 <sup>rd</sup> Prize	Charlotte Thomson Sophie Thomson	Walford Anglican School for Girls	Factors Affecting Tadpole Growth
HC	Jessica Hewitson	Walford Anglican School for Girls	Upside Down Rose
HC	Jordan Lee	Magill School	Glucose Levels in Drinks
HC	Lily-Rose Spartialis	St Peter's Collegiate Girls' School	What Makes a Bath bomb fizz?
HC	Cameron Wright	Mitcham Primary School	Fletch & Arrow Flight

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.

The BHP Billiton Science and Engineering Awards reward young people who have undertaken practical research projects which demonstrate innovative approaches and thorough scientific procedures. For more information, visit our website at [www.scienceawards.org.au](http://www.scienceawards.org.au)

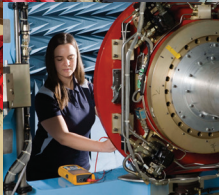
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## Congratulations to all entrants in the **Oliphant Science Awards**



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.

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**Science and Technology for Safeguarding Australia**



# 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**

#### **Associate Professor Claudine Bonder**

Associate Professor Claudine Bonder is a vascular biologist at the Centre for Cancer Biology and her work investigates the intricate network of blood vessels that carry cells throughout our body. Her laboratory works with endothelial cells; the cells that line the blood vessels, and using cutting edge technology her team aims to better understand the role of endothelial cell in normal and disease. Recent advances in the Bonder laboratory include (i) the development of smart surface biomaterials to co-transplant endothelial cells together with insulin-producing islet cells to cure patients with diabetes and (ii) understanding how cancer cells transform into endothelial-like cells to enhance the blood supply for tumour growth.

#### **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 a Young Tall Poppy winner in 2011.

**Welcome:** Ms Karen Palumbo, SASTA President

#### **Oliphant Science Category Award Winners**

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

Australasian Radiation Protection Society

Australian Society of Bio-Chemistry & Molecular Biology Prize

Collision & Co Prize

RACI – Chemical Education Group Prize

University of Adelaide – Faculty of Engineering Computer & Mathematical Sciences Prize

University of Adelaide – Faculty of Science Prize

#### **CSIRO Education/CREST Prizes**

#### **Australian Grain Technologies Prize**

#### **Australian Institute of Energy Prizes**

#### **Flinders University Science & School of the Environment Prizes**

#### **Nature Foundation SA Prize**

#### **Primary Industries Education Foundation Australia Prize**

#### **Department of Primary Industries and Regions South Australian and**

#### **South Australian Research and Development Industries 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 2016**

- **9:30pm** Conclusion: Ms Karen Palumbo, SASTA President



## CATEGORY AWARD WINNERS – 8-12

### Computer Programming and Robotics

#### 8

1 <sup>st</sup> Prize	Maeve Allen – Horvat	Unley High School	Sun Smart UV Hat
2 <sup>nd</sup> Prize	Maia Hodge	Wilderness School	Rabbits and Foxes Ecosystems
3 <sup>rd</sup> Prize	James Burgess	Pulteney Grammar School	Reflex Arc

#### 9 – 10

1 <sup>st</sup> Prize	Seran Perera	Prince Alfred College	Smart Seizure Sensing System
2 <sup>nd</sup> Prize	Alexandra Stephenson	Adelaide Hills Home School Group	The Tack Collector
3 <sup>rd</sup> Prize	Denny Han	Prince Alfred College	Phone Belt

#### 11 – 12

1 <sup>st</sup> Prize	Marika Colby	Glenunga International High School	Equation Balancer
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### Crystal Investigations

#### 9 – 10

1 <sup>st</sup> Prize	Bethanie Yik Emily Zhang	Unley High School
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### Games

#### 8

1 <sup>st</sup> Prize	Fotini Mazis	Walford Anglican School for Girls	Broken Bones
2 <sup>nd</sup> Prize	Imogen Howard Sarah Thomson	Walford Anglican School for Girls	Reach for the Stars
3 <sup>rd</sup> Prize	Maya Thesinger	Pulteney Grammar School	Digestive System
HC	India Prince Natalie Nimon	Walford Anglican School for Girls	Exciting Elements

#### 9 – 10

1 <sup>st</sup> Prize <i>equal</i>	Amber Washington	Pulteney Grammar School	
1 <sup>st</sup> Prize <i>equal</i>	Lucy Bright	Walford Anglican School for Girls	Rain, Hail or Shine
2 <sup>nd</sup> Prize	Matthew Drown Ned Wheaton	Pembroke School	Energy Revolution

### Models and Inventions

#### 8

HC	Maeve Allen – Horvat Mabel Schultz	Unley High School	Pill Safety Distributor Machine
HC	Polly Callcott Isabella Schwerdt	Walford Anglican School for Girls	The Hand
HC	James Lance	Pulteney Grammar School	Cardiovascular System

#### 9 – 10

1 <sup>st</sup> Prize	Victoria Clarke Holly Wheaton	Urrbrae Agricultural School	Pillar Sundial
HC	Amber Elsdon Sophie Sawers	Walford Anglican School for Girls	London Bridge
HC	Elyse Smith Maddy Green	Concordia College Inc	

## 11 – 12

1 <sup>st</sup> Prize	Oliver Sprey	Glenunga International High School	Chocolate 3D Printer
2 <sup>nd</sup> Prize	Idris Kellermann Williams	Glenunga International High School	Automatic Gearbox
HC	Denil Kollakombil	Unley High School	

## Multimedia

### 8

1 <sup>st</sup> Prize	Charley Kennedy- Dinan	St John's Grammar School – Senior	Beyond the Surface
2 <sup>nd</sup> Prize	Simone Marchesan	Walford Anglican School for Girls	Veggie Power
3 <sup>rd</sup> Prize	Chris Francis	St John's Grammar School – Senior	The Magnus Effect
HC	Elizay Abid	Mitcham Girls' High School	Recycling Plastics
HC	Jennifer Arens	Walford Anglican School for Girls	Behind the Skin
HC	Keegan Mitchell	St John's Grammar School – Senior	

### 9 - 10

1 <sup>st</sup> Prize	Dakota Poole Ebony Werner	St John's Grammar School – Senior	
2 <sup>nd</sup> Prize	Ella Nixon – Dores Josh Croser	Mitcham Girls' High School	Surface Tension
3 <sup>rd</sup> Prize	Callum Cunningham- Byrne James Gurney	Brighton Secondary School	

## Photography

### 8

1 <sup>st</sup> Prize	Paris Kouparanis	Mitcham Girls' High School	What Colour Tells Us
2 <sup>nd</sup> Prize	Alana Williams	Mitcham Girls' High School	Form and Function
3 <sup>rd</sup> Prize	Kiley Li Matthew Lin	Glenunga International High School	Science and Innovation in Agriculture
HC	Isabelle Lilburn	Loreto College	What Colour Tells Us
HC	Steph Madigan	Unley High School	Microhabitats
HC	Matthew Nelson	St John's Grammar School – Senior	Microhabitats

### 9 – 10

1 <sup>st</sup> Prize	Alexandra Stephenson	Adelaide Hills Home School Group	What Colour Tells Us
2 <sup>nd</sup> Prize	Amber Washington	Pulteney Grammar School	
3 <sup>rd</sup> Prize	Belle Hope Olivia Sharon	St Aloysius College	Reflections and Refractions
HC	Kelly Barnett Jamie Lowe Tori Randall	Southern Vales Christian College – Aldinga Campus	Microhabitats
HC	Gracie Bennett	Mitcham Girls' High School	What Colour Tells Us
HC	Jay Helbers	Glenunga International High School	Microhabitats
HC	Alex Reader	St John's Grammar School – Senior	Microhabitats
HC	Samantha Summerford	Loreto College	Succession in Action
HC	Anya Van Enkhuyzen	Mitcham Girls' High School	Reflections and Refractions
HC	Stephanie Whitman	St John's Grammar School	What Colour Tells Us

## Posters

### 8

1 <sup>st</sup> Prize	Edward Angley	St John's Grammar School – Senior	What Happens with Recycled Plastics
2 <sup>nd</sup> Prize	Lajpreet Thind	Our Lady of the Sacred Heart College	Drones in Action
3 <sup>rd</sup> Prize	Isabelle Lilburn	Loreto College	What Happens with Recycled Plastics
HC	Madeleine Flapper	Loreto College	Numbers in Science
HC	Ben Rawlings	Glenunga International High School	Invertebrate Superheroes
HC	Tayla Wood	Unley High School	What Happens with Recycled Plastics

### 9 – 10

1 <sup>st</sup> Prize	Georgia Williams	Loreto College	Numbers in Science
2 <sup>nd</sup> Prize	Madison Hornabrook	St John's Grammar School – Senior	Invertebrate Superheroes
3 <sup>rd</sup> Prize	Finlay Menz	Glenunga International High School	Invertebrate Superheroes
HC	Caitlin Driscoll	St John's Grammar School – Senior	Invertebrate Superheroes
HC	Taylor Ford	Southern Vales Christian College – Morphett Vale Campus	Numbers in Science
HC	Tara Girardi	Glenunga International High School	Invertebrate Superheroes

## Science Writing

### 8

1 <sup>st</sup> Prize	Emma Pincombe	Glenunga International High School	Can We Live Without Coal?
2 <sup>nd</sup> Prize	Yashika Paul	Glenunga International High School	Vaccines – Good or Bad?
3 <sup>rd</sup> Prize	Tess Jantke	Glenunga International High School	Chemistry of Sugars
HC	Kirstien Heraha	Glenunga International High School	Can We Live Without Coal?
HC	Dominic Jackson	Pembroke School	Plants We Need for a Sustainable Future
HC	Joseph Jantke	Glenunga International High School	Bio Engineering
HC	Ashleigh Searle	Walford Anglican School for Girls	Vaccines – Good or Bad?
HC	Finlay Twining	Glenunga International High School	Can We Live Without Coal?

### 9 – 10

1 <sup>st</sup> Prize	Reema Madike	Wilderness School	Vaccines – Good or Bad?
2 <sup>nd</sup> Prize	Anita Suetrong	Glenunga International High School	Vaccines – Good or Bad?
3 <sup>rd</sup> Prize	Chidiuso Ajaero	Concordia College Inc	Brain-Computer Interfaces: Changing the World
HC	Katie Aitkin	St John's Grammar School – Senior	Vaccines – Good or Bad?
HC	Carla Ceravolo	Mary Mackillop College	Can We Live Without Coal?
HC	Danielle Cooke	Our Lady of the Sacred Heart College	Plants We Need for a Sustainable Future
HC	Mark Ding	Pembroke School	Fructose the "Low GI" Sugar
HC	Bharya Kulathunga	Glenunga International High School	Vaccines – Good or Bad?
HC	Mikaela Sas	Concordia College Inc	Bio Engineering, Innovation in Food
HC	Daniel Shin	Glenunga International High School	Bio Engineering
HC	Kanisha Wills	Pembroke School	Artificial Sweeteners

## 11 – 12

1 <sup>st</sup> Prize	Valerie Bryksin	Gleeson College	Parabens
2 <sup>nd</sup> Prize	Khuong-Daniel Nguyen	Blackfriars Priory School	Vaccines – Good or Bad?
3 <sup>rd</sup> Prize	Assunta Lepore	Loreto College	Vaccines – Good or Bad?
HC	Shian Buck	Gleeson College	Additives
HC	Isabella Inglis	Seymour College	

## Scientific Inquiry

### 8

1 <sup>st</sup> Prize	Madison Lacy	Walford Anglican School for Girls	Get "Straight" To the Point
2 <sup>nd</sup> Prize	Sophie Davidson	Walford Anglican School for Girls	Did you see that? – Reaction time testing
3 <sup>rd</sup> Prize	Penelope Casson	Wilderness School	
HC	Charlotte Creek Sophie Johnson Amelie Dunda	St Peter's Collegiate Girls' School	Does Light Colour Affect Plant Growth?
HC	Kylie Ho	Unley High School	To See or Not to See
HC	Gemma Voss Koninika Dattagupta	Walford Anglican School for Girls	How Music Affects the Concentration of Children

### 9 – 10

1 <sup>st</sup> Prize	Alexandra Stephenson	Adelaide Hills Home School Group	Vibration Damping on the Cello by Cello Mutes
2 <sup>nd</sup> Prize	Hannah McGrath	Micham Girls' High School	Which Wavelengths "See" Through Smoke Best?
3 <sup>rd</sup> Prize	Amber Krackowska	Pembroke School	Chocolate Garden
HC	Erin McLennan	Emmaus Christian College	
HC	Seran Perera	Prince Alfred College	The Effect of Circuit Wiring in the Luminosity

## 11 – 12

1 <sup>st</sup> Prize	Jasmine Pople	Urrbrae Agricultural High School	Drought Response of Two Varieties of Wheat
2 <sup>nd</sup> Prize	Alexandra Larke	Seymour College	Comparing the internal solute
3 <sup>rd</sup> Prize	Brittany Larke	Seymour College	The Effect of the Concentration of Substrate

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.



## 8 – 12 SPONSOR PRIZES

### **Australasian Radiation Protection Society Prize R-12**

*For the most outstanding entry with a radiation protection or health physics theme.*

- 8 Maeve Allen – Horvat** – Unley High School  
*Computer Programming and Robotics: Sun Smart UV Hat*

### **Collison & Co Prize R-12**

*Awarded to the entry with the most inventive design.*

- 9-10 Seran Perera** – Prince Alfred College  
*Computer Programming and Robotics: Smart Seizure Sensing System*

### **RACI – Chemical Education Group Prize R-12**

*Awarded to the most outstanding entry with a chemistry theme.*

- 11-12 Marika Colby** – Glenunga International High School  
*Computer Programming and Robotics: Equation Balancer*

### **University of Adelaide: Faculty of Sciences**

*Awarded to the most outstanding entry highlighting the benefits of scientific research to the community.*

- 9-10 Hannah McGrath** – Mitcham Girls' High School  
*Scientific Inquiry: Which Wavelengths "See" Through Smoke Best?*

### **University of Adelaide: Faculty of Engineering Computer & Mathematical Sciences**

*Awarded to the most outstanding entry with an engineering, mathematical or computing theme.*

- 9-10 Seran Perera** – Prince Alfred College  
*Computer Programming and Robotics: Smart Seizure Sensing System*

## **CSIRO Education/CREST Secondary Prize**

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

Best CREST School **Glenunga International High School**

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

## **Australian Grain Technologies Prize 8-12**

*Awarded to the best entry displaying science and innovation in agriculture.*

- 11-12 Jasmine Pople** – Urrbrae Agricultural High School  
*Scientific Inquiry: Drought Response of Two Varieties of Wheat*

## **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 Emma Pincombe** – Glenunga International High School  
*Science Writing: Can We Live Without Coal?*
- 9-10 Matthew Drown & Ned Wheaton** – Pembroke School  
*Games: Energy Revolution*

## **Primary Industries Education Foundation Australia Prize 8-12**

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

- 11-12 Jasmine Pople** – Urrbrae Agricultural High School  
*Scientific Inquiry: Drought Response of Two Varieties of Wheat*

## Flinders University Science Prize 8-12

*Awarded to the outstanding research-based entry in science.*

- 11-12**     **Jasmine Pople** – Urrbrae Agricultural High School  
*Scientific Inquiry: Drought Response of Two Varieties of Wheat*

## Flinders University – School of the Environment Prize 8-12

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

- 9-10**     **Hannah McGrath** – Mitcham Girls' High School  
*Scientific Inquiry: Which Wavelengths "See" Through Smoke Best?*

## Nature Foundation SA Prize 8-12

*Awarded to the most outstanding entries with a Nature Conservation theme in the multimedia category.*

- 9-10**     **Amber Washington** – Pulteney Grammar School  
*Game*

## Dept of Primary Industries & Regions South Australia & South Australian Research & Development Institute Prize 8-12 Prize

*Awarded to the the best secondary entry with a sustainable use of natural resource in agriculture theme.*

- 11-12**     **Jasmine Pople** – Urrbrae Agricultural High School  
*Scientific Inquiry: Drought Response of Two Varieties of Wheat*

## 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**     Seymour College

## Rowe Scientific Country School Award

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

**Wudinna Area School**

## DECD Young Scientist Awards 8-12

- First**     **Seran Perera** – Prince Alfred College  
**First**     **Alexandra Stephenson** – Adelaide Hills Home School Group
- Second**     **Oliver Sprey** – Glenunga International School  
**Second**     **Jasmine Pople** – Urrbrae Agricultural High School
- Third**     **Idris Kellermann Williams** – Glenunga International High School  
**Third**     **Amber Washington** – Pulteney Grammar School

## Oliphant Medal

**Kee-An Seet** – Glenunga International High School

*9-10 – Scientific Inquiry: Do Different Detergents Affect Compost Worms*

## Oliphant Trophy

*For outstanding science content.*

*Presented by Ms Monica Oliphant AO 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*

**Congratulations to all the winners for 2016  
and thank you all for your attendance.**



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in the

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2017

SASTA

OLIPHANT

SCIENCE AWARDS

**Have you entered the OLIPHANT  
SCIENCE AWARDS before?**

**Ask your teacher about entry.**

Head to our website for more information  
[www.oliphantscienceawards.com.au](http://www.oliphantscienceawards.com.au)

SASTA would like  
to thank its  
Platinum sponsors  
for their support:



Government  
of South Australia  
Department for Education  
and Child Development





## **Congratulations on your Award!**

To view and order your images online please visit:

[www.eventadelaide.com](http://www.eventadelaide.com)

Then log on using these details:

**Gallery:** Oliphant Science Awards 2016

**Password:** OSA16 *(please note this is case sensitive)*

If you require assistance, please call 1300 362 492 during office hours.

# Visit the Oliphant Science Awards Website

[www.oliphantscienceawards.com.au](http://www.oliphantscienceawards.com.au)



The screenshot shows the homepage of the Oliphant Science Awards website. At the top, there is a navigation bar with links for 'Home', 'Contact Us', and 'Coordinator Login'. Below this is a main header with the SASTA Oliphant Science Awards logo and a secondary navigation menu with links for 'About', 'Event Info', 'Participant Info', 'Get Involved', and 'Register'. The main content area features a large banner image of children in a science lab with the text 'Great Opportunities for learning through SCIENCE'. To the right of the banner is a 'Upcoming Key Dates' section with a table of dates and events. Below the banner are three smaller images with captions: 'Register as a coordinator', 'Student information', and 'Judge registrations NOW CLOSED'. At the bottom, there are three columns of text providing details about the awards, including registration information and a link to register online.

Home Contact Us [Coordinator Login](#)

SASTA OLIPHANT SCIENCE AWARDS

[About](#) [Event Info](#) [Participant Info](#) [Get Involved](#) [Register](#)

## Great Opportunities for learning through SCIENCE

### Upcoming Key Dates

SEP 19	Presentation Ceremony (INVITE ONLY)
DEC 01	Information Release on 2015 competition
JUN 18	Registrations Close

[View all Key Dates >](#)

#### Register as a coordinator >

The Oliphant Science Awards are a wonderful opportunity for school students from Reception to Year 12 to develop their interests in science through a competition with a range of categories to suit a wide variety of abilities and interests. Registrations for 2014 are now closed!

[Register online >](#)

#### Student information >

All South Australian School students from Years R-12 are invited to participate in the Oliphant Science Awards. If you are a student looking to enter a project, make sure that you read all the project tips, rules and criteria guidelines and terms & conditions before starting your project!

[Find out more >](#)

#### Judge registrations NOW CLOSED >

Network with others interested in Science, further your professional development and discover inspiration and ideas for your programming. Registrations for the 2015 Competition will open in late 2014 so please keep an eye on the website!

[Register online >](#)