

Presentation Ceremony – Adelaide Festival Centre

Friday 20 September 2013

SA's largest **Science Competition**

2013

SASTA

OLIPHANT

SCIENCE AWARDS

SOUTH AUSTRALIAN SCIENCE TEACHERS ASSOCIATION

Details Available On-line: www.sasta.asn.au



Government of South Australia
Department for Education and
Child Development

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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 Rofo** 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*

THE OLIPHANT SCIENCE AWARDS

The Oliphant Science Awards, named in honour of Sir Mark Oliphant, are conducted annually by the South Australian Science Teachers Association.

Since the start of the Awards in 1981, participation has grown. School students from all over South Australia now enter the competition. The wide range of interests and abilities of these students is catered for by the many categories and age groupings offered. Students can enter individually or, for many of the categories, participate as part of a group.

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

The Awards recognise the excellent work of students 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 the Oliphant Science Awards. Our appreciation of our sponsors' support is acknowledged through their attendance at and participation in the Awards Ceremony.

This year we are pleased to acknowledge as our Platinum and Gold Sponsors, SA Water, The Advertiser, the Department for Education & Child Development and the Defence Science Technology Organisation.

An essential part of the Oliphant Science Awards is the judging. The South Australian Science Teachers Association wishes to thank the large group of dedicated teachers and supporters of science who volunteer to help judge the thousands of entries that students prepared for this year's competition. Their contribution 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, and the encouragement and support given by parents and teachers. We also thank and acknowledge the hard work of the SASTA OSA Committee members and the many other SASTA volunteers, and the dedicated work of our SASTA Office staff. We look forward to this continuing support and to the ongoing success of the Oliphant Science Awards.

Convenors:
Peter Turnbull and David LeCornu

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.

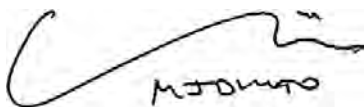
SASTA's strength lies in our members and in the many highly committed educators who volunteer their time out of school hours to ensure that we continue to serve the needs of all teachers of science. Our 465 members are drawn from all education sectors, teaching all year levels across the State. We are 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.

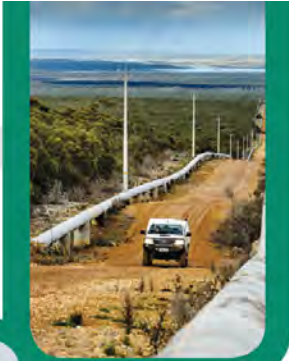
Science and the technologies made possible by scientific research and development are driving us through a period of rapid technological change. These changes are, in turn, informing the debate about what science is important and how it should be taught in our schools. SASTA and our members are closely 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.



Mark Divito
SASTA President.





We're behind every drop

Every hour of every day, SA Water's people embrace the challenge of delivering safe, sustainable and affordable water services to more than 1.5 million South Australian customers. Once this water has been used, we remove the waste and treat it to ensure the best outcomes for your health, and reduce environmental impact. Owned by the Government of South Australia, SA Water is focused on providing essential services that support growth and economic development throughout our state.

Driven to serve our customers for more than 150 years, we know water. We manage more than \$13 billion worth of assets, our water quality expertise is recognised around the globe and we are a leader in wastewater recycling. We employ more than 1500 people – each one looking for innovative ways to deliver efficient and responsive water and wastewater services to our customers now and into the future.



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The Department for Education and Child Development proudly sponsors

The Oliphant Science Awards

SOUTH AUSTRALIAN YOUNG SCIENTIST AWARDS

For many young people their experience of Science at school sets a pattern that lasts throughout life. Young people's school experience of Science helps to determine their choice of career, and this in turn impacts on the development of a future workforce well educated in Science and capable of supporting innovation and development in South Australia.

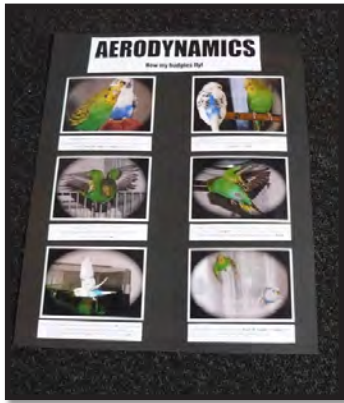
The Oliphant Science Awards provide wonderful avenues for students and teachers to explore Science and its applications as part of their learning programs. The Department for Education and Child Development has been a proud sponsor of the Oliphant Science Awards since their inauguration as part of our commitment to equity, excellence, participation and choice.

The Department for Education and Child Development Strategic Directions 2012-2016 places *children and young people at the centre of everything we do*. It describes guidelines to promote excellence in learning for all students. The department is committed to supporting students, teachers and school leaders to increase engagement and interest in Science. Our schools and sites are technologically rich and future-orientated, committed to strengthening the partnerships with families and community.

The Australian Science and Mathematics School, located at Flinders University, is a further example of excellence in the teaching and learning of Science and Mathematics. The school fosters the Science and Mathematics talents of South Australian students through programs at the school and in partnership with other schools across the state.

The Department for Education and Child Development congratulates all students, teachers and their families for their participation and congratulates the South Australian Science Teachers Association on another successful year of the Oliphant Science Awards.

Programme & Prize Winners Reception - Year 7



R – 7 PROGRAMME

- 6.00pm Seating of winners
- 6.15pm Seating of audience and guests
- 6.30pm Ceremony commences

THE MASTERS OF CEREMONY

Dr Claudine Bonder

Dr 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 use leading technology to better understand their role in normal and disease states. Her research investigates how blood vessels are normally built and function so that we can intervene in this process to treat vascular disease. For example, she hopes to prevent the inappropriate development of blood vessels in cancer, cardiovascular disease, arthritis and diabetes as well as promote the growth and repair of vessels for organ transplantation. Dr Bonder was a Young Tall Poppy recipient in 2009.

Dr Natasha Harvey

Dr Natasha Harvey is a developmental biologist at the Centre for Cancer Biology, SA Pathology. Dr Harvey's research program is focussed on understanding how lymphatic vessels are normally constructed during development. Lymphatic vessels are vital for fluid homeostasis, fat absorption and the transport of immune cells in our bodies. By understanding how these vessels are normally built and how their function is controlled, we aim to gain a better understanding of how these vessels go wrong in disorders like cancer, cardiovascular disease and lymphoedema. The ultimate goal of Dr Harvey's research is to identify new targets to which novel treatments for cancer, lymphoedema and cardiovascular disease could be developed. Dr Harvey was a Young Tall Poppy recipient in 2007.

Welcome: Mr Mark Divito, SASTA President

SASTA Best Country School Award

Catholic Education SA Primary Schools Prizes

Australian Institute of Energy Prizes

Nature Foundation SA Prizes

Beach Energy Prize

University of South Australia Prize

CSIRO Education / CREST Prizes

Oliphant Science Category Award Winners

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

Australian Institute of Physics

Australian Society of Bio-chemistry & Molecular Biology

Collison & Co

The Tall Poppy Campaign

SA Water R-7 Prize

Department for Education and Child Development

South Australian Young Scientist Awards

Announcements: *The Oliphant Trophy Winner 2013*

- 7.45pm **Conclusion:** Mr Mark Divito, SASTA President

SASTA Best Country School Award

Awarded to the best country school with high achievement and participation across a wide range of categories

Encounter Lutheran College

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 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 Alex Lothian** – St Andrew's School
Models & Inventions: The Solar Oven
- 3-5 Joel Ransom** – St John's Grammar School - Junior
Games: The Force of Nature
- 6-7 Amber Washington** – Walkerville Primary School
Games: Earthwise

Nature Foundation SA Prizes R-7

Awarded to the most outstanding junior, primary and secondary entry with nature conservation theme.

- R-2 George Austin** – Walkerville Primary School
Posters: Conserving Natural Ecosystems
- 3-5 Wei-En Seet** – Magill School
Posters: Conserving Mangroves
- 3-5 Matthew Swain** – St John's Lutheran School - Highgate
Models & Inventions: Why Seal Bay?
- 6-7 Charlene Lee** – Magill School
Posters: The future of our ecosystem is in our hands.

Beach Energy Prize R-12

Awarded to the best entry with a Geosciences' theme.

- 6-7 Bellarose Watts** – Scott Creek Primary School
Models & Inventions: Gondwanaland



University of South Australia Prize R-12

Awarded to the most outstanding entry from a country school

- 3-5 Tobias Duchon, Zachari Thompson & James Rowland**
Encounter Lutheran College
Models & Inventions: Carrot Chopper

CSIRO Education/CREST Primary Prize

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

- Best CREST School **St Andrew's School**
Best Non-CREST School **Magill School**

R – 7 SPONSOR PRIZES

Australian Institute of Physics Prize R-12

Awarded to the best entry with a physics theme.

- 3-5 Imogen Whettters** – St Peter's Woodlands Grammar School
Models & Inventions Robo Fish – Retracted Light

Australian Society of Biochemistry & Molecular Biology Prize R-12

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

- 3-5 Joshua Fedele** – Prince Alfred College
Science Writing: Cycles of Life

Collison & Co Prize R-12

Awarded to the entry with the most inventive design.

- 6-7 Jake Quaresima** – St Thomas School
Models & Inventions: Air Compressed Electricity Generator

The Tall Poppy Campaign R-7

Awarded to the best primary and secondary entries with investigation and/or research.

- 6-7 Isabella Bradford, Christina Karapetis & India Lumbers**
Wilderness School
Multimedia: Dissolving Discoveries

SA Water R-7 Award

Awarded to the most outstanding entry with a water delivery or waste management theme

- 3-5 Tayla Wood, Abby White & Charlotte Weeks** – Highgate School
Multimedia: Desalination – At What Environmental Cost

DECD Young Scientist Awards R - 7

- First **Kee-An Seet** – Magill School
First **Charlene Lee** – Magill School
Second **James Beaumont** – St Thomas School
Second **Amber Washington** – Walkerville Primary School
Third **Isaac Au** – St Andrew's School
Third **Wei-En Seet** – Magill School



Government of South Australia
Department for Education and
Child Development

R-7 SASTA OLIPHANT SCIENCE CATEGORY AWARD WINNERS

Computer Programming & Robotics

R - 2

1st Prize	Oliver Lawes	St Andrew's School	Frog Game
2nd Prize	William Lawes	St Andrew's School	Robot 1
3rd Prize	Adam Gleadle	St John's Grammar School - Junior School	Mosquito Stopper

3 - 5

1st Prize	Max Burgess Nicholas Barnett Archie MacKirdy	Encounter Lutheran College	"Sci-Blocks"
2nd Prize	Maeve Allen-Horvat	Scotch College	Periodic Table Game
3rd Prize	Hugh Bowden	Burnside Primary School	Medical Analysis Program
HC	Lara Kirkby	Walford Junior School for Girls	Lolly Sorter

6 - 7

1st Prize	James Beaumont	St Thomas School	HiFit
2nd Prize	Tom Grozev Jamie Grozev	St Andrew's School	Vending Machine
3rd Prize	Max Kirkby	Prince Alfred College	Wireless Patrolling Segway

Crystal Investigations

R - 2

1st Prize	Jasper Gottliebse	St Andrew's School	Crystal Investigation
2nd Prize	Gunin Singhal	Walkerville Primary School	Crystal Investigation
3rd Prize	Talia Herbst	St Andrew's School	Crystal Investigation
HC	Eva Todd	Bellevue Heights Primary School	Crystal Intelligence
HC	Amber Webster	St Andrew's School	Crystal Investigation
HC	Isaac Au	St Andrew's School	Crystal Investigation
HC	Lucas Donlan	St Andrew's School	Crystal Investigation

3 - 5

1st Prize	Qian Lian Sam Good	St Leonards Primary School	Crystal Investigation
2nd Prize	Sam Gorrie	St Andrew's School	Crystal Investigation
3rd Prize	Erin Eyles Danni Gilby	St Leonards Primary School	Crystal Investigation
HC	Lewis Guyatt	Grange Primary School	Crystals grow better in the dark?
HC	Lillian Hassfurter	Highbury Primary School	Does water colour effect final colour
HC	Imogen Fechner	Mitcham Primary School	Crystal Investigation
HC	Bailey Fechner	Mitcham Primary School	Crystal Investigation
HC	Cooper Fechner	Mitcham Primary School	Crystal Investigation
HC	Ethan Webster	St Andrew's School	Crystal Investigation

6 - 7

1st Prize	Rachel Learmonth	St Leonards Primary School	Alum Crystals
2nd Prize	Anna Barlett Arisa Michos	Walford Anglican School for Girls	Crystal Investigation
3rd Prize	Lauren Shallow Rebecca Gray Tijana Mitrovic	Grange Primary School	Crystal Investigation
HC	Connor Edwards	Burnside Primary School	Crystal Investigation
HC	Alena Tavui Jack Allen-Crummey	Glen Osmond Primary School	Which Variable increases or decreases crystal grow
HC	Millie Morgan Claire Nitschke Isabella Van Loenen	Seymour College	Crystal Investigation

Games

R - 2

1st Prize	Patrick Dwyer	Scotch College	Helping the World
2nd Prize	Kaden Blanksby Ky Henry	Stirling East Primary School	WASTE: We are saving the Earth
3rd Prize	Kaiji Doubell	Seacliff Primary School	Marine Munch: Ocean Foodchain
HC	Mackenzie Barr	St Andrew's School	Peak Rush
HC	Talia Herbst	St Andrew's School	Race Through the Galaxy
HC	William Egan	Stirling East Primary School	Planets Card Game

3 - 5

1st Prize	Luke Chalmers	Magill School	Eco-opoly
2nd Prize	Lucinda Watts	Scott Creek Primary School	Body Twist
3rd Prize	Joel Ransom	St John's Grammar School - Junior	The force of nature
3rd Prize	Edward Hawkes Will Pheasant	Walkerville Primary School	Dinosaur Board Game
HC	Amber Grantham	Glen Osmond Primary School	Zoom Through the Zoo
HC	David Cooper Xander Akison	Magill School	Science Game
HC	Claire McCormack	Mitcham Primary School	
HC	Lily Austin	St Andrew's School	Lily's Game
HC	Sam Gorrie	St Andrew's School	It's About Time
HC	Ruby Mills	St Thomas School	Tectonic Play
HC	Olivia Stone	Walford Junior School for Girls	Yo Yo

6 - 7

1st Prize	Joshua Lambert	Good Shepherd Lutheran School	Pacific Panic
2nd Prize	Caitlin McManus Claire Hartley	Para Vista Preschool - Seven	Science Brain Power
3rd Prize	Angus Ritossa	Highgate School	Molecule Creation Game
HC	Nethli Peiris	Glen Osmond Primary School	Early Science
HC	Alexander Petterson Brandon Dobrinski	Para Vista Preschool - Seven	Planet Rush
HC	Yolanda Dalton	Scott Creek Primary School	Biological Dilema
HC	Georgia Bowden Emma Herselman Dominique Rigby	St Peter's Collegiate Girls' School	Race to the Sun
HC	Georgia Laight Katerina Krinas	Walford Anglican School for Girls	Brainiac
HC	Kirsty Penhall Chloe Taylor	Walford Anglican School for Girls	Race to the Core
HC	Charlotte Williams Lucy Byrnes Kristiana Balasis	Walford Anglican School for Girls	Asteroid Attack
HC	Amber Washington	Walkerville Primary School	Earthwise

Models & Inventions

R - 2

1st Prize	Hugo Higgs Connor Andrews	Glen Osmond Primary School	Robot
2nd Prize	Alex Lothian	St Andrew's School	The Solar Box Oven
3rd Prize	Regan Nelson Charlie Gibbon	Prince Alfred College	Oil Rig

HC	James van Loenen	Burnside Primary School	Jamse's Motorcycle
HC	Lily Kluska Soraya Parker Nancy Marshall	Glen Osmond Primary School	Model & Invention
HC	Jade Mangan Sophie Gawel	Paringa Park Primary School	Model & Invention
HC	Mason Hooper	Scotch College	Magnetic Hover Car
HC	Bailey Gaiter	Seacliff Primary School	Model & Invention
HC	Alexandra Goldsworthy	St Andrew's School	Air Rocket Science
HC	Isaac Au	St Andrew's School	Model & Invention
HC	Wyatt Horsfall Niamh Horsfall	St John's Grammar School - Junior School	Seed to Plant
HC	Ava Jones Joseph Doyle Jonty Schwerzel	Sunrise Christian School - Marion	Car Table
HC	Regan Nelson	Prince Alfred College	Oil Rig
3 - 5			
1st Prize	Hudson Elliott Tim Sweet	Immanuel Primary School	Aerodynamics - Why planes get off the ground.
2nd Prize	Lilli Richter	Walford Junior School for Girls	London Bridge
3rd Prize	Yasmin Doyle	St Thomas School	Wave Machine
HC	Jay Goldfinch Max Vincenzi	Bellevue Heights Primary School	Snail Model and Facts
HC	Molly Sweeney	Dernancourt School R-7	Pneumatic system
HC	Tobias Duchon Zachari Thompson James Rowland	Encounter Lutheran College	Carrot Chopper
HC	Jasper Roberts Sam Baxter Nick Baxter	Encounter Lutheran College	Volcanic Mayhem
HC	Elena Raymundo Del Campo	Grange Primary School	By the Sea
HC	Eleni Malandris	Highgate School	Wind Farm Makes Power
HC	Shae Williams Will Gohl	Seacliff Primary School	Model & Invention
HC	Benjamin Goldsworthy	St Andrew's School	Lie Detector Science
HC	Gauri Wechalekar Curie Thota	St Andrew's School	Model & Invention
HC	Emilie Horsfall	St John's Grammar School - Junior	Life cycle of a frog
HC	Matthew Swain	St John's Lutheran School - Highgate	Why Seal Bay?
HC	Imogen Whettters	St Peter's Woodlands Grammar School	Robo Fish – Refracted Light
HC	Macey Tyler	St Thomas School	Neptune Layers
HC	Lewis Stephens	St Thomas School	Layers of the Earth
HC	Faith Sawers Hope Sawers Jaclyn Wilmot	Walkerville Primary School	Australian Invention - Cochlear Implant
HC	Harrison Cheesman James Taylor	Walkerville Primary School	Remote Control Hover Car
HC	Harrison Cheesman Leonardo Politzi	Walkerville Primary School	Crash Test Gravity
HC	Alexandra Chadderton Miranda Stahl	Walford Junior School for Girls	Turning Water into Power
HC	James Walters Lucas Huxtable	Prince Alfred College	The Hover Board

6 - 7

1st Prize	Ben Ransom	St John's Grammar School - Junior	Polarised 3D
2nd Prize	Max Williams	St Thomas School	Catapult model
3rd Prize	Jarrold Smythe	St Michael's Lutheran Primary School	Hovercraft Model
HC	Louis Sachs	Dernancourt School R-7	Pneumatic Car
	Terry Osborne		
HC	Thomas Verbart	Highbury Primary School	Model & Invention
HC	Bellarose Watts	Scott Creek Primary School	Gondwanaland
HC	My Linh Do	St Patrick's School	Ancient Roman Crane
HC	Jake Quaresima	St Thomas School	Air Compressed Electricity
HC	Maddison Carroll	Walford Anglican School for Girls	Model & Invention
HC	Georgia Laight	Walford Anglican School for Girls	Model & Invention
	Ashleigh Kurbatfiniski		
	Madeline Rawson		
HC	Indiana Neumann	Walford Anglican School for Girls	Model & Invention
	Georgia Meyer		
HC	Chelsea Robinson	Walford Anglican School for Girls	Model & Invention
	Aurora Balding		
	Cindy Gobell		
HC	Kate Wilson	Walford Anglican School for Girls	Model & Invention
	Charlotte Farmer		
HC	Courtney Cheesman	Walkerville Primary School	Aquaponics

Multimedia

R - 2

1st Prize	Haruki Kurioka	St Andrew's School	Bacteria and Fungi - Our Standard Staple
	Aleksa Novakovic		
	Bogdan Novakovic		
2nd Prize	Mahalia Coggins	Emmaus Christian College	Amazing Leaves
3rd Prize	Alex Palamountain	Emmaus Christian College	What Happened to the Dinosaurs
HC	Lana Bloss	Walkerville Primary School	Who discovered the Earth was round?
HC	Aggelos Vlachakis	Prince Alfred College	Amazing Volcanoes

3 - 5

1st Prize	Dylan Worswick	Scotch College	Science of Stealth
2nd Prize	Macoy Kohler	Magill School	Rotten Tomatoes
3rd Prize	Tayla Wood	Highgate School	Desalination - At What Environmental Cost
	Abby White		
	Charlotte Weeks		
HC	Cameron Coggins	Emmaus Christian College	Desalination using Reverse Osmosis

6 - 7

1st Prize	Isabella Bradford	Wilderness School	Dissolving Discoveries
	Christina Karapetis		
	India Lumbers		
2nd Prize	Yohan Verghese	Scotch College - Senior	The Marvel of Sight
3rd Prize	Declan Hoare	St Thomas School	The science of allergic reactions- It's Nuts
HC	Chelsea Ryan	Mitcham Primary School	Science Delivered To You
	Jedd Ryan		
HC	Stephanie Montatore	St Ignatius College	It's in the Genes
	Christina Kalamitis		
HC	Danae Mavrakis	Wilderness School	Cosmetic Princess

Photography

R - 2

1st Prize	Rithkrithi Saravanan	Plympton Primary School	Science in my daily life
2nd Prize	Molly Silvy	Loreto College	Energy in Many Forms
3rd Prize	Isaac Au	St Andrew's School	Patterns on the Landscape
HC	Sofia Lam	Scotch College	Melting Moments
HC	Christopher Fitch	Scott Creek Primary School	Patterns in the Landscape
HC	Luca Shin	St Andrew's School	Energy In Many Forms
HC	Bogdan Novakovic Aleksa Novakovic	St Andrew's School	Levels in Ecosystems
HC	Noah Ghan	St Andrew's School	Melting Moments
HC	Eric McCauley	Prince Alfred College	Energy in Many Forms

3 - 5

1st Prize	Isabelle Lilburn	Loreto College	Aerodynamics
2nd Prize	Kern Mitchell	Colonel Light Gardens Primary School	Heat Energy in many forms
3rd Prize	Zachary Palamountain	Emmaus Christian College	Energy in Many Forms
3rd Prize	Jamie Smith	St Peter's Woodlands Grammar School	Melting Moments
HC	Cameron Mills	Bellevue Heights Primary School	Lines in the Sand
HC	Rachel Symons Daphne Dale	Grange Primary School	Levels in Ecosystems
HC	Jacob Semmens	Grange Primary School	The Semmens' Model
HC	Joseph Bojcevski	Immanuel Primary School	Energy in Many Forms
HC	Maree Vatenos Charlotte Warnock	Immanuel Primary School	Science in my Daily Life
HC	Amelie Dunda	Loreto College	Who made these patterns?
HC	Dylan Worswick	Scotch College	Aerodynamics
HC	Sarah Bender	St Aloysius College	Energy in Many Forms
HC	Sofia Cardone Arabella Winter	St Andrew's School	Melting Moments
HC	Leah Unerkov	St Andrew's School	Aerodynamics
HC	Paul Musolino	St Andrew's School	Science in my Daily Life
HC	Noah Pitkin	St Andrew's School	Science in my Daily Life
HC	Ethan Criaris	St Andrew's School	Science in My Daily Life
HC	Noys Le Chenadec	Unley Primary School	Patterns on the landscape
HC	Sophie Davidson	Walford Junior School for Girls	Patterns on the Landscape

6 - 7

1st Prize	Blake Cranna	Prince Alfred College	Separating Mixtures
2nd Prize	Georgie Thorpe	Immanuel Primary School	Science In Daily Life
3rd Prize	Seran Perera	Prince Alfred College	Energy in Many Forms
HC	Sam Maguire	Burnside Primary School	Melting Moments
HC	William Moore	Glen Osmond Primary School	Aerodynamics
HC	Rochelle Cummins Mikayla Scheffield	Grange Primary School	Science in my Daily Life
HC	Thomas Pukkinen	Immanuel College	Energy in Many Forms
HC	Jolene Peer	Paringa Park Primary School	Finding Science in my Daily Life
HC	Jake Reedman	Pulteney Grammar School	Melting Moments
HC	Emma O'Brien Belle Hope	St Aloysius College	Science in my Daily Life
HC	Sebastian Deverson	St John's Grammar School - Senior	Science in my Daily Life
HC	Grace Edwards	St Peter's Collegiate Girls' School	Science in my Daily Life
HC	Lauren Ward	St Peter's Woodlands Grammar School	Science in my Daily Life
HC	Amber Washington	Walkerville Primary School	Science in my Daily Life
HC	Charlie Drew	Westminster School	Patterns on the Landscape
HC	Nicola Jannes	Wilderness School	Science in my Daily Life
HC	Anthea Yew	Wilderness School	Science in my Daily Life

Posters

R - 2

1st Prize	Alastair Whyte	Burnside Primary School	Beneath Our Feet
2nd Prize	Ki Joyce	Paringa Park Primary School	Australia's Greatest Scientific Inventions
3rd Prize	Madison Gee	Seacliff Primary School	Beneath Our Feet
3rd Prize	George Austin	Walkerville Primary School	Conserving Natural Ecosystems
HC	Lachlan Hennessy	Cedar College	Beneath our Feet
HC	Balen Taylor	Dernancourt School R-7	Beneath Our Feet
HC	Simeon Lambert	Good Shepherd Lutheran School	Beneath Our Feet
HC	Swen Stuart	Magill School	Beneath Our Feet
HC	Arjan Uppal	Plympton Primary School	Beneath Our Feet
HC	Samuel King	Rose Park Primary School	Light and Sound
HC	Matys Le Chenadec	Unley Primary School	It's in the genes

3 - 5

1st Prize	Anisha Mcgavigan	Walford Junior School for Girls	It's in the Genes
2nd Prize	Bethany Collo	Redwood Park Primary School	Beneath our Feet
3rd Prize	Claire McCormack	Mitcham Primary School	Beneath Our Feet
HC	Mika Eichinger	Burnside Primary School	It's in the Genes
HC	Amelia Hennessy	Cedar College	Grow worms and Fireflies!
HC	Wei - En Seet	Magill School	Why conserve our mangroves?
HC	Jordan Lee	Magill School	A World Beneath our Feet
HC	Tara Dunne	Redwood Park Primary School	Beneath Our Feet
HC	James Donovan	Redwood Park Primary School	Beneath Our Feet
HC	Christina Bozski	Redwood Park Primary School	Beneath Our Feet
HC	Hannah Searing	Redwood Park Primary School	Beneath Our Feet
HC	Sophie McGrath	St Aloysius College	Australian Scientists in History
HC	Jennifer Nguyen	St Aloysius College	Australia's Greatest Scientific Inventions
HC	Zoe McMillam	St Aloysius College	Australian Scientists in History -
HC	Lisa Nelson	St Andrew's School	Beneath Our Feet
HC	Louella Schapel	St Peter's Woodlands Grammar School	Beneath Our Feet
HC	Mia Matthew-Klose	St Thomas School	Australia's Greatest Scientific Inventions
HC	Truc-Mai Nguyen	Walkerville Primary School	Australian Scientists in History
HC	Ella Tsiolis	Walkerville Primary School	Australia's Greatest Scientific Inventions
HC	Koninika (Misty) Dattagupta	Walford Junior School for Girls	Beneath Our Feet

6 - 7

1st Prize	Abbey Mills	St John's Grammar School - Senior	Conserving Natural Ecosystems
2nd Prize	Charli Thompson	St Aloysius College	Australian Scientists in History
3rd Prize	Janelle Coad	Redwood Park Primary School	Australia's Greatest Scientific Inventions
3rd Prize	Jake Field	Redwood Park Primary School	Australia's Greatest Scientific Inventions
HC	Georgie Thorpe	Immanuel Primary School	It's in the genes.
HC	Sarsha Carroll	John Hartley School	Beneath Our Feet
HC	Charlene Lee	Magill School	The future of our ecosystem
HC	Amy Gater	Para Vista Preschool - Seven	Australia's Greatest Scientific Inventions
HC	Caitlin Chandler	Para Vista Preschool - Seven	Australia's Greatest Scientific Inventions
HC	Kimberley Chloe Craggs	Redwood Park Primary School	Australia's Greatest Scientific Inventions
HC	Mackenzie Graham	Redwood Park Primary School	Australia's Greatest Scientific Inventions
HC	Emily Tyler	St Aloysius College	Conserving Natural Ecosystems
HC	Eliza Turner	St Aloysius College	Conserving Natural Ecosystems

HC	Bridie Squire	St Aloysius College	Conserving Natural Ecosystems
	Bethany Cross	St Peter's Collegiate Girls' School	
HC	Nicolette Miller	St Peter's Collegiate Girls' School	Conserving Natural Ecosystems
HC	Amber Washington	Walkerville Primary School	Beneath Our Feet
HC	Angel Cheung	Wilderness School	Beneath Our Feet
HC	Karen Chiu	Wilderness School	Beneath Our Feet
HC	Margo Muir	Wilderness School	Beneath Our Feet

Science Writing

R - 2

1st Prize	Larissa Whitehead	Paringa Park Primary School	Bacteria - Friend or Foe?
2nd Prize	Isaac Pham	St Andrew's School	Bacterias
3rd Prize	Sigge Ahlgren	Seacliff Primary School	Cycles of Life
HC	Matthew Grove	Colonel Light Gardens Primary School	Bacteria Friend or Foe?
HC	Hugh Payze	Highgate School	How I Use Science Everyday
HC	Amelia Brogan	Seacliff Primary School	Bacteria Friend or Foe?
HC	Edward Hales	Seacliff Primary School	Bacteria Friend or Foe?
HC	Joel Wight	Seacliff Primary School	Cycles of Life

3 - 5

1st Prize	Olivia Whyte	Burnside Primary School	Bacteria Friend or Foe?
2nd Prize	Truc-Mai Nguyen	Walkerville Primary School	Bacteria - Friend or Foe?
3rd Prize	Madeleine Flapper	Loreto College	Bacteria - Friend or Foe?
HC	Joann Phillips	Emmaus Christian College	Solar Cells Are they worth the
HC	Jenna Pieroban	Emmaus Christian College	Bacteria Friend or Foe?
HC	Tobi Ryan	Rose Park Primary School	Life Cycles - Interesting frog life
HC	Joshua Fedele	Prince Alfred College	Cycles of Life

6 - 7

1st Prize	Kee - An Seet	Magill School	Australia-Leading Science Endeavour
2nd Prize	Charlotte Hall	Walford Anglican School for Girls	Cycles of Life
3rd Prize	Uri Hauben	Paringa Park Primary School	Bacteria - Friend or Foe?
HC	Anna Bi	Glen Osmond Primary School	Bacteria Friend or Foe?
HC	Jung Ho Han	Prince Alfred College	How I use Science Everyday
HC	Martin Lidums	Prince Alfred College	Bacteria-friend or Foe?
HC	Jamieson Madex-Hefford	St Aloysius College	Bacteria Friend or Foe?
HC	Catherine Arens	Walford Anglican School for Girls	Bacteria Friend or Foe?
HC	Emily Osborne	Walford Anglican School for Girls	Bacteria Friend or Foe?

Scientific Inquiry

R - 2

1st Prize	Isaac Cheng	St Andrew's School	What storage method will keep a banana fresh longer
2nd Prize	Jay Mills	Bellevue Heights Primary School	Fizz - The Mentos Experiment
3rd Prize	Marcus Neill	St John's Lutheran School - Highgate	A Weighty Problem!
HC	Charlotte Weber	Burnside Primary School	Magnetic Strength
HC	Tigerlily Santry	Seacliff Primary School	Scientific Inquiry
HC	Archer Rouvray	Seacliff Primary School	Scientific Inquiry
HC	Harmony Ibis	St Andrew's School	Scientific Inquiry
HC	Henry Grey	Prince Alfred College	Coin Cleaning Mad

3 - 5

1st Prize	Jordan Lee	Magill School	The LED and Halogen Face Off
2nd Prize	Min - En Seet Wei - En Seet	Magill School	Soap, Water & Common Sense
3rd Prize	Owen Hilander	Magill School	The Tea Test
HC	Rebecca Swanson	Crafers Primary School	Scientific Inquiry
HC	Jeremy Swain	St John's Lutheran School - Highgate	Which Golf Ball Will Give The
HC	Emma Neill	St John's Lutheran School - Highgate	Worm Power
HC	Noys Le Chenadec	Unley Primary School	Can a plant survive on other

6 - 7

1st Prize	Charlene Lee	Magill School	Do Isotonic Sports Drink Affect Our Teeth?
2nd Prize	Kee - An Seet	Magill School	Different Ways to make water safe to drink
3rd Prize	Eloise Treadwell Josephine Males	Walford Anglican School for Girls	Is Information the key to Recycling?

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

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



The Advertiser



“Congratulations to last year’s winners for
The Advertiser School Encouragement Prize -
Port Lincoln Primary School and Para Hills High School
(primary & secondary).”

Sam Weir

Editor - The Advertiser

Two entries were chosen for *The Advertiser* Encouragement Awards - one for the best first-time primary and one for the best first-time secondary school.

EDUCATION

A Newspaper in Education Resource

The education lift-out can be found
in *The Advertiser* every Tuesday
during the school term.



To submit story ideas from your
school contact Martina:
martina.simos@news.com.au



Australian Government

Department of Defence

Defence Science and
Technology Organisation

DSTO congratulates
all entrants in the

Oliphant Science Awards



The Defence Science and Technology Organisation (DSTO), 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.

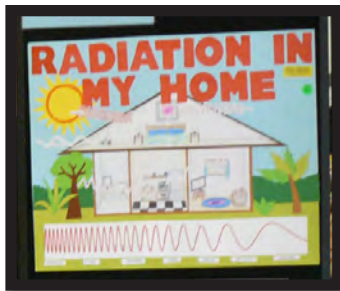
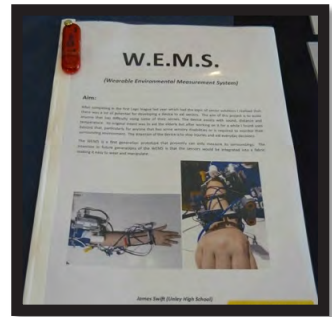
In undertaking its research, the impact of DSTO, particularly on the electronics industry in South Australia, has been huge. As the largest scientific facility in Australia, DSTO Edinburgh is a major employer and innovator of electronics in Australia.

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

DSTO 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.

Visit DSTO's website at:
<http://www.dsto.defence.gov.au>

programme & Prize Winners Years 8 - 12



8-12 PROGRAMME

7.45pm Seating of winners

8.00pm Seating of audience and guests

8.15pm Ceremony commences

THE MASTERS OF CEREMONY

Dr Claudine Bonder

Dr 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 use leading technology to better understand their role in normal and disease states. Her research investigates how blood vessels are normally built and function so that we can intervene in this process to treat vascular disease. For example, she hopes to prevent the inappropriate development of blood vessels in cancer, cardiovascular disease, arthritis and diabetes as well as promote the growth and repair of vessels for organ transplantation. Dr Bonder was a Young Tall Poppy recipient in 2009.

Dr Natasha Harvey

Dr Natasha Harvey is a developmental biologist at the Centre for Cancer Biology, SA Pathology. Dr Harvey's research program is focussed on understanding how lymphatic vessels are normally constructed during development. Lymphatic vessels are vital for fluid homeostasis, fat absorption and the transport of immune cells in our bodies. By understanding how these vessels are normally built and how their function is controlled, we aim to gain a better understanding of how these vessels go wrong in disorders like cancer, cardiovascular disease and lymphoedema. The ultimate goal of Dr Harvey's research is to identify new targets to which novel treatments for cancer, lymphoedema and cardiovascular disease could be developed. Dr Harvey was a Young Tall Poppy recipient in 2007.

Welcome: Mr Mark Divito, SASTA President

Oliphant Science Category Award Winners

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

Skeptics SA

University of Adelaide – Faculty of Engineering Computer & Mathematical Sciences

The Tall Poppy Campaign

University of Adelaide – Faculty of Sciences

Australasian Radiation Protection Society

CSIRO Education/CREST Prizes

Australian Institute of Energy Prizes

Flinders University Science & Flinders University - School of the Environment Prizes

Nature Foundation SA Prizes

SA Water 8-12 Prize

Defence Science and Technology Organisation Prizes

Department for Education and Child Development

South Australian Young Scientist Awards

The Oliphant Medal and The Oliphant Trophy 2013

9.30pm **Conclusion:** Mr Mark Divito, SASTA President

8-12 SASTA OLIPHANT SCIENCE CATEGORY AWARD WINNERS

Computer Programming & Robotics

8			
1st Prize	Carter Smith Tom Roocke	Rostrevor College	Bike Computer
2nd Prize	Anthony Carapetis Obadiah Crowe Colwyn Bowie	Glenunga International High School	Colour Sorter
3rd Prize	Madeleine McNeil Elizabeth Inaba-Hill Sarah-Rose Rullo	Walford Anglican School for Girls	Automated Garbage Collection
HC	Aaron Thomas	St John's Grammar School - Senior	
9 - 10			
1st Prize	James Swift	Unley High School	W.E.M.S
2nd Prize (Tied)	Nicole Hanna-Rivero Valerie Bryksin	Gleeson College	The Professor's Laboratory
2nd Prize (Tied)	Mika Goetze Ben Goetze Esrom Leaman	Pembroke School	Unity
11 - 12			
1st Prize	Steven Regidor-Yanez Jack Allison	Pembroke School	Navigation Abstraction Demonstration

Crystal Investigations

8			
1st Prize	Mia Walker	Unley High School	Crystal Growing
2nd Prize	Stacey Wynn Zoe Tyler	Eastern Fleurieu R-12 School	Crystai Investigation
3rd Prize	Danni Leombruni Kate Reardon	Para Hills High School	Crystai Investigation
HC	Sophie Hercus	Unley High School	Crystal Growing
HC	Viki Ntafillis	Unley High School	Crystai Investigation
HC	Sarah Bourne	Walford Anglican School for Girls	Crystai Investigation
9 - 10			
1st Prize	Nicholas Terp	Prince Alfred College	Breaking Bad
2nd Prize	Rhoda Okoidigun Bano Nasiri Alex Laskowski	Para Hills High School	Crystal Investigation
3rd Prize	Ashe Singde Tamanna Hussainzadah Tanja Sladokovic	Para Hills High School	Crystal Investigation
HC	Wes Levinson	Para Hills High School	Crystal Investigation
Games			
8			
1st Prize	Rachael Greenwell Elizabeth Hayes Zoe Jefferies	St John's Grammar School - Senior School	River Rampage
2nd Prize	Naomi Smith	Wilderness School	Animalis Eripio
3rd Prize	Paris Dudley Shardia Russo	St Peter's Collegiate Girls' School	Bottom of the Card
9 - 10			
1st Prize	Shania Vallelonga	St Peter's Collegiate Girls' School	Don't Stop Swimming
HC	Michelle Jeffery	Mitcam Girls High School	Think science

Models & Inventions

8

1st Prize	Sarah Short Sebastian Calvert	Glenunga International High School	The Small Hadron Collider
2nd Prize	Thomas Papaemmahoui Jack Doley	Unley High School	Hovering craft
3rd Prize	Idris Kellerman-Williams	Glenunga International High School	Model of clock escapement
HC	Sean Stobie Ned Weinert	Immanuel College	Drifting Apart
HC	Mitchell Nicmanis	St John's Grammar School - Senior School	Model & Invention
HC	Katelyn Nicholson	Walford Anglican School for Girls	Model & Invention
HC	Lauren Gorle	Walford Anglican School for Girls	Model & Invention
HC	Bridget Smart	Wilderness School	The Motor

9 - 10

1st Prize	Stephen Marshall	St John's Grammar School - Senior School	Laser Range Finder
2nd Prize	Matthew Richardson Daniel Williams	Brighton Secondary School	Scorpus Mini Planetarium
HC	Mehar Singh Ahmed Sanjid Kurt Benton	Hamilton Secondary College	Wind Turbine
HC	Lucy Lu	Mitcham Girls High School	Virus
HC	Alai Lezama Kymberley Markulic Gabriella Hards	Para Hills High School	Robotic carrier
HC	Tanis Hillmer Wes Levinson Michael Southwell	Para Hills High School	Redesign a Go Kart Engine
HC	Rohan Wheaton Lars Uoorhoeve	Urrbrae Agricultural High School	Solar Tower

11 - 12

1st Prize	Jack Allison	Pembroke School	DIY High-Resolution Lightgate
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Multimedia

8

1st Prize	Janani Ramamoorthy Theresa Lee Sarah Damin	Wilderness School	The Four Historical Components that Make the World
2nd Prize	Kseniia Bogatyreva	Glenunga International High School	States of Matter
3rd Prize	Jack Goldsmith	St John's Grammar School - Senior School	Elephant Science Timelapses
3rd Prize	Tina Vo	St Peter's Collegiate Girls' School	Digestion
HC	Kevin Yin Eugene Min Steven Yin	Glenunga International High School	Is it a bird, is it a plane? No, it's aerodynamics
HC	Leroy McConnell	Glenunga International High School	Extinction
HC	Phoebe Worthley	Walford Anglican School for Girls	Health Talk with Phoebe
HC	Maisie Callcott Harriet Wewitson Ruby Osborne	Walford Anglican School for Girls	Science Video
HC	Catherine Nguyen Ayani Gamage	Wilderness School	Radiation: Nowhere and Everywhere

9 - 10

1st Prize	Claire Williams	St John's Grammar School - Senior School	Science Movie
2nd Prize	Megan Jenssen Chelsea McGuinness Kritika Mishra	St Peter's Collegiate Girls' School	Photosynthesis
3rd Prize	Verity Bond Emily Whyatt Hayley Zevenboom	St John's Grammar School - Senior School	Food vs Science
HC	Jessica Cathcart	Gleeson College	How Insects See
HC	Kaitlin Chadwick	Mitcham Girls High School	Weird & Wonderful Creatures
HC	Gemma Lyons	Seymour College	Gene Therapy for Cystic Fibrosis
HC	Meg Anderson Lise Jacobs Tabitha Nagel	St John's Grammar School - Senior School	The Copper Girls
HC	Callum Wales Sean Jackson	St John's Grammar School - Senior School	Native and Introduced Plants
HC	Lachlan Carlsson-Forbes Fergus Eyres	St John's Grammar School - Senior School	Multimedia Project

11 - 12

1st Prize	Andy Park	The Heights School	Psychological Effects and Issues of Long-term Isolation
2nd Prize	Eriq Van Der Veer	The Heights School	Energy Sources in Space
HC	Smiriti Singh	The Heights School	The Problems of Living and Working in Space

Photography

8

1st Prize	Harmony Craig	Wilderness School	Patterns on the Landscape
2nd Prize	Layla Duckworth Lauren Rawlings Iva Sorsa-Sunic	Glenunga International High School	Patterns in Nature
3rd Prize (Tied)	Louis Nye	St John's Grammar School - Senior School	Science in my everyday life
3rd Prize (Tied)	Lauren Moularadellis	Wilderness School	Patterns on the Landscape
HC	Emilia Newlands	Glenunga International High School	Patterns on the Landscape
HC	Charlotte Reid	Glenunga International High School	Patterns on the Landscape
HC	Rhys Morgan Asha Armstrong-Zaid Simon Kim	Glenunga International High School	Levels in Ecosystems
HC	Julia Scinto Hannah Dandie Assunta Lepore	Loreto College	Light and Sound
HC	Tom Murphy	St John's Grammar School - Senior School	Science in my Daily Life
HC	Siobhan Trimble	Wilderness School	Patterns on the Landscape
HC	Cherie Jansen Louisa Langsford Laura Klovekorn	Wilderness School	Patterns on the Landscape
HC	Sian Hardie Harriet Riebe	Wilderness School	Patterns on the Landscape

9 - 10

1st Prize	Jessica Evans	Loreto College	Levels of the Rainforest
2nd Prize	Erin Carnie-Branca	The Heights School	Patterns on the Landscape
3rd Prize	Emily Squires Anyue Lang Alexandra James	Brighton Secondary School	Patterns on the Landscape
HC	Marcus Falckh	Brighton Secondary School	Patterns on the Landscape
HC	KaitLynn Gale Gabrielle Duykers	Encounter Lutheran College	Melting Moments
HC	Amelia Turner	St John's Grammar School - Senior School	Science in my Daily Life
HC	Caroline Barber	Horizon Christian School	Melting Moments

Posters

8

1st Prize	Molly Chapman	Wilderness School	Radiation in my Home
2nd Prize	Hannah Dandie	Loreto College	Australian Scientist in History
3rd Prize	Jessica Paterson	Walford Anglican School for Girls	Sir Mark Oliphant
HC	Stella Batelaan	Brighton Secondary School	Science Poster
HC	Damon Hefford	Brighton Secondary School	Science Poster
HC	Katherine Shi	Glenunga International High School	It's in the Genes
HC	Taylor Pfeiffer	Wilderness School	Radiation
HC	Lyna Yue	Wilderness School	Don't Block the Life Down Under

9 - 10

1st Prize	Olivia Teh	St Peter's Collegiate Girls' School	Radiation - a Hidden Helper in the Home
2nd Prize	Madeleine Lilburn	Loreto College	It's in the Genes
3rd Prize	Anna Cross	St Peter's Collegiate Girls' School	Australian Scientists in History
HC	Alexandra Brown	St John's Grammar School - Senior School	Science Poster
HC	Soraya Duke	St John's Grammar School - Senior School	Science Poster
HC	Claire Thomas	St Peter's Collegiate Girls' School	Science Poster

Science Writing

8

1st Prize	William Pincombe	Glenunga International High School	Solar Cells - are they worth the
2nd Prize	Olivia Habel	St Peter's Collegiate Girls' School	Does the Science Add up?
3rd Prize	Josh Moore	Glenunga International High School	Bacteria - Friend or Foe?
HC	Liam Jennings	Glenunga International High School	Bacteria - Friend or Foe?
HC	Alana Baker	Glenunga International High School	Bacteria - Friend or Foe?
HC	Sophie Freeman	St Peter's Collegiate Girls' School	Biotechnology: Does it Help?
HC	Angela-May Rullo	Walford Anglican School for Girls	Bacteria Friend or Foe?
HC	Julia Fowler	Walford Anglican School for Girls	Biotechnology, does it help?
HC	Alexandra Vernon	Walford Anglican School for Girls	Does The Science Add Up?

9 - 10

1st Prize	Seung Hun Han	Prince Alfred College	Science behind the perfect taste
2nd Prize	Madeleine Lilburn	Loreto College	Bacteria - Friend or Foe?
3rd Prize	Amal George	Glenunga International High School	Bacteria - Friend or Foe?

HC	Lucinda Duxbury	Glenunga International High School	Scientific Inquiry
HC	Kritika Mishra	St Peter's Collegiate Girls' School	Scientific Inquiry

11 - 12

HC	Xinyu Shi	Glenunga International High School	Biotechnology - does it help?
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Scientific Inquiry

8

1st Prize	Greg Howlett	St John's Grammar School - Senior School	How does sunlight affect Plant Phloem's size
2nd Prize	Emily Tickner	Walford Anglican School for Girls	Variables affecting the strength of hen's eggs
3rd Prize	Isabelle Greco Isobel Keen	Wilderness School	The effect of music on plant growth and development
HC	Lara Williams Alna Guidolin Ella Wood	Glenunga International High School	Facial Cleanser Experiment

9 - 10

1st Prize	Madeleine Lilburn	Loreto College	What Moisturiser will be most effective at Improving my Dry Skin?
2nd Prize	Chandula Seneviratne Yuze Zhai	Glenunga International High School	More expensive bleach, is it worth it?
3rd Prize	Joel Lee	Prince Alfred College	The Effects of Music on Short-term Memory
HC	Brianna Wicks	Emmaus Christian College	Scientific Inquiry
HC	Natalie Kanter Fiona Thoi	Glenunga International High School	Omo vs Vanish
HC	Phoebe Hill Sarah Candeloro Robyn Davies	Glenunga International High School	Waterproof mascara, is it really waterproof?
HC	Kavi Siksaukar Jenna Shin	Norwood Morialta High School	Single Vehicle Collision
HC	Aneesha Singh Katie Nomikos Isobel Marshall	Walford Anglican School for Girls	Scientific Inquiry
HC	Emily Biggs Stephanie Brownrigg	Walford Anglican School for Girls	Scientific Inquiry

11 - 12

1st Prize	Kimberley Raoux	Urrbrae Agricultural High School	Coffee or Tea: Which Is Better?
2nd Prize	Ashleigh Chin	Unley High School	How Safe is your Microwave
3rd Prize	Jenny Pham	Pulteney Grammar School	Correlation's between cognitive intelligence with academic success

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

Skeptics SA Prize R-12

Awarded to the entry that best critically analyses a subject.

- 8 Olivia Habel** – St Peter's Collegiate Girls' School
Science Writing: Does the Science Add up?

University of Adelaide: Faculty of Engineering Computer & Mathematical Sciences

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

- 8 Idris Kellerman-Williams** – Glenunga International High School
Models & Inventions: Model of Clock Escapement

The Tall Poppy Campaign Prize 8-12

Awarded to the best primary and secondary entries with investigation and/or research.

- 9-10 Madeleine Lilburn** – Loreto College
Scientific Inquiry: What Moisturiser will be most effective at improving my dry skin

University of Adelaide – Faculty of Sciences Prize 8-12

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

- 9-10 Anna Cross** – St Peter's Collegiate Girls' School
Posters: Australian Scientists in History

Australasian Radiation Protection Society Prize 8-12

Awarded to the most outstanding entry with a radiation protection or health physics theme.

- 11-12 Ashleigh Chin** – Unley High School
Scientific Inquiry: How Safe is your Microwave Oven

CSIRO Education/CREST Primary 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 **St John's Grammar School**

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 William Pincombe** – Glenunga International High School
Science Writing: Solar Cells – are they worth the cost?
- 9-10 Mehar Singh, Ahmed Sanjid & Kurt Benton** – Hamilton Secondary College
Models & Inventions: Wind Turbine
- 11-12 Jason Dodd** – Port Lincoln High School
Science Writing: Should our family have solar panels fitted to save money?

Flinders University – School of the Environment Prize 8-12

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

- 8** **William Pincombe** – Glenunga International High School
Science Writing: Solar Cells – are they worth the cost?

Flinders University Science Prize 8-12

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

- 9-10** **James Swift** – Unley High School
Computer Programming & Robotics: W.E.M.S

Nature Foundation SA Prizes 8-12

Awarded to the most outstanding primary and secondary entries with a nature conservation theme.

- 8** **Rachael Greenwell, Elizabeth Hayes & Zoe Jefferies-** St John’s Grammar
Games: River Rampage
- 9-10** **Jessica Evans** – Loreto College
Photography: Levels of the Rainforest

SA Water 8-12 Prize

Awarded to the most outstanding entry with a water delivery or waste management theme

- 8** **Rachael Greenwell, Elizabeth Hayes & Zoe Jefferies-** St John’s Grammar
Games: River Rampage

Defence Science & Technology Organisation Secondary Schools Prize

- 8-10**
First Glenunga International High School
Second St John’s Grammar School
- 11-12**
Equal First Pembroke School
Equal First The Heights School

DECD Young Scientist Awards 8-12

- First** **Jack Allison** – Pembroke School
First **Madeleine Lilburn** – Loreto College
- Second** **James Swift** – Unley High School
Second **Kimberley Raoux** – Urrbrae Agricultural High School
- Third** **Greg Howlett** – St John’s Grammar School
Third **Ashleigh Chin** – Unley High School



Oliphant Medal

Presented by Ms Monica Oliphant to the 2012 Oliphant Science Awards winner.

Will Russell – St John's Grammar School

Oliphant Trophy

*For outstanding science content.
Presented by Ms Monica Oliphant to the 2013 Oliphant Science Awards winner.*

Madeleine Lilburn – Loreto College

Scientific Inquiry: What Moisturiser will be most effective at improving dry skin

**Congratulations to all the winners for 2013
and thank you all for your attendance.**





Congratulations

As a proud sponsor of the SASTA Oliphant Science Awards, we congratulate you on your outstanding achievement.

To pursue your career in science at UniSA, our degrees blend academic expertise and industry based learning which makes our graduates distinctive. As a research leader, much of our assessed research is recognised as world class standard by the 2012 Excellence in Research Australia assessment.

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Chris Williams, PhD student, Mawson Institute



University of
South Australia

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Congratulations on your achievements



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inspiring achievement

The Faculty of Science and Engineering congratulates all participants in the Oliphant Science Awards and are proud to support you – our future scientists and engineers.

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Energising the young scientists of the future

As an oil and gas exploration and production company, much of Beach Energy's operations are based on science. Our people are endlessly fascinated by the analysis of the earth and are driven to help educate young people on the wonder of science and its importance in everyday life. By supporting the Oliphant Science Awards we hope to help encourage and inspire the scientists of the future.

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Nature Foundation SA Inc

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For more information about the Nature Foundation SA Inc

Ph: 1300 366 191

Website: www.naturefoundation.org.au or Email: NatureFoundationSA@nfsa.org.au

The Royal Australian Chemical Institute (SA Branch)

is delighted to support the Oliphant Science Awards and congratulates the SA Science Teachers Association, students and teachers on their magnificent contribution to the advancement of science education

SA Branch Web Site: <http://www.raci.org.au/branches/sa-branch>

At State level, the RACI organises the Year 12 Chemistry Merit Medallion Presentation, the D R Stranks Memorial Student Lecture, Crystal Growing Competition judging and advice, Teacher Professional Development, Distribution of Chem Matters and the series of Review magazines by Phillip Allan. Nationally, there is National Chemistry Week and Quiz, and the Chemical Analysis Competition.

Teacher and student enquiries should be directed to:

Chemical Education Group R.A.C.I. (SA Branch)

PO Box 749, Blackwood SA 5051 or

Ian McMahon – ian.mcmahon@tsc.sa.edu.au



The Australian Institute of Energy

"Leadership in Energy"

AIE is proud to be associated with the Oliphant Science Awards

Visit the AIE web site for independent quality information, on-line news, current activities and links on energy supply, energy utilisation and sustainability issues.

Our web address is <http://www.aie.org.au>



**Catholic Education
SOUTH AUSTRALIA**

Congratulates all entrants
in the

OLIPHANT SCIENCE AWARDS

And acknowledges the
contribution of the
South Australian Science
Teachers Association

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Visit the SASTA Website

www.sasta.asn.au



The screenshot shows the SASTA website homepage. At the top left is the SASTA logo with the text 'South Australian Science Teachers Association'. To the right are links for 'Contact Us' and 'Shopping Cart'. Below the logo is a navigation menu with items: 'Professional Learning', 'Student Activities', 'Publications', 'About Us', 'Resources', 'Members Area', and 'Join'. A 'SASTA Members:' section is also visible. The main content area features a large banner image of two scientists in a lab, with the text 'Supporting Teachers of Science... Advancing Science Education.' Below the banner are three promotional boxes: 'National Science Week 2012' (with a 'Find out More' link), 'Olliphant Science Awards' (with a 'Find out more' link), and 'SASTA Journal Now Online' (with a right-pointing arrow). On the left side, there is a section for 'South Australian Science Teachers Association (SASTA)' with a paragraph of text. To its right is a 'SASTA on Twitter:' section with three tweets from 18th July, each with a timestamp and a link. Further right is a 'Popular Items:' section with a list of links: 'SASTA Board', 'Olliphant Science Awards', 'Student Activities', 'Call for Presenters: Maths & Science Middle School Conference', 'Year 12 Holiday Revision Seminars', 'Study Guides', and 'Online Catalogue'. At the bottom of the Twitter section is a 'Follow us on Twitter' link.

SASTA
South Australian
Science
Teachers
Association

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**Supporting Teachers of Science...
Advancing Science Education.**

National Science Week 2012
Find out More

Olliphant Science Awards
Find out more

SASTA Journal Now Online

South Australian Science Teachers Association (SASTA)

The South Australian Science Teachers Association (SASTA) aim is 'to promote and support the teaching of science in schools'; and 'to foster the professional development of science teachers'. SASTA's strength lies in its members who are science teachers and laboratory officers 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.

SASTA has around 500 members and they are drawn from all education sectors, teaching all year levels across the state. SASTA is also fortunate to have a permanent secretariat to ensure the continuing smooth functioning of all aspects of our business.

SASTA on Twitter:

3:10 pm | 18th Jul: Start preparing for National Science Week 2012!!! <http://www.sasta.asn.au>

3:07 pm | 18th Jul: Special mentions to Susan Gaarbois - Westburne Park Primary School, Anne Mignone - ASMS and Karen Palumbo - Hamilton Secondary College

3:06 pm | 18th Jul: Congratulations to all the finalists in the 2012 Science Excellence Awards. <http://bit.ly/0h57N6c0d>

Popular Items:

- SASTA Board
- Olliphant Science Awards
- Student Activities
- Call for Presenters: Maths & Science Middle School Conference
- Year 12 Holiday Revision Seminars
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- Online Catalogue

Follow us on Twitter