

Shine On



It's all about awards this Christmas, celebrating successes and supporting future opportunities.

We have achieved a great deal in our 63 year history, but the future is going to require all our efforts if we are to continue to face the challenges ahead.

Your gift today to support the Academy's awards program will provide life-changing opportunities for young scientists and help us to forge a future that transforms our understanding of ourselves, our world and our universe.

Making a donation

The Australian Academy of Science is registered as a Deductible Gift Recipient (DGR): your donation to the Academy is fully tax-deductible.

To make a gift to the Academy please visit www.science.org.au/support-us, or for more information about giving to the Academy through a donation or bequest, please contact:

Ms Isobel Griffin MFIA

Manager

Development and Stewardship

isobel.griffin@science.org.au

Phone: 02 6201 9471

Academy launches its Awards Fundraising Appeal for Christmas 2017



Hayley Teasdale is the recipient of the 2017 Adam J Berry Memorial Fund established in memory of a young Australian scientist. The award is co-managed on behalf of the Berry family by the Academy and the Foundation of the National Institutes of Health in the USA.

The fund is intended to support one early-career Australian researcher to work in the USA at an institute of the National Institutes of Health (NIH) each year. In addition to gaining valuable experience for themselves, the researchers are expected to make a contribution to the research program of the institute they are visiting.

Your support of the Academy's awards program this Christmas will ensure the Academy continues to provide life-changing experiences for other young scientists like Hayley.

[DONATE NOW](#)

Generous donation helps secure the future of Dorothy Hill award



Associate Professor Tracy Ainsworth from James Cook University

A generous donation to the Academy from the University of Queensland will continue to support female early-career researchers working in the Earth sciences.

The gift also helps secure the future of the Academy's Dorothy Hill Medal, established as an award in 2002 in honour of the late Professor Dorothy Hill AC CBE FAA FRS, a pioneer for women in science.

Professor Hill became Australia's first female professor in 1959 when she was appointed Professor of Geology at the University of Queensland. Professor Hill also became the first Australian female Fellow of the Australian Academy of Science (1956) and the Royal Society of London (1965), and the first female president of the Academy (1970).

Seventeen female early-career researchers have received awards, with Associate Professor Tracy Ainsworth from James Cook University the latest recipient. Her research has improved our understanding of how stress responses and diseases occur in corals.

She has also discovered that while small increases in sea temperatures negatively impact the health of corals, under the right circumstances corals can acclimate to increased sea temperatures and survive the bleaching process.

Associate Professor Ainsworth said Professor Hill continues to be an inspiration and a role model for scientists in the Earth sciences, particularly early career women.

'Her achievements and leadership are as relevant today as they were throughout her ground-breaking career.

'The Dorothy Hill Medal in earth sciences provides support and an invaluable opportunity to showcase the research of women in Earth sciences. It is wonderful that through the support of the University of Queensland, this medal will continue to recognise the achievements of leading early-career female Earth scientists,' Associate Professor Ainsworth said.

More about [Professor Dorothy Hill](#) and the [Dorothy Hill Medal](#).

[More about Associate Professor Ainsworth's work](#)

New honorific award medals being designed by the Royal Australian Mint

New medals are being designed by the Royal Australian Mint for three awards that until now have not had medals: the Le Fèvre Memorial Prize, the Dorothy Hill Award and the Frederick White Prize. The first Dorothy Hill Medal and Frederick White Medal will be presented at Science at the Shine Dome in May 2018 and the first Le Fèvre Medal at a Royal Australian Chemical Institute function in 2018.

The Max Day Environmental Science Fellowship Award

In 2018 the Academy will be holding a celebration of the life and work of Max Day. We will also be seeking additional funds to strengthen and guarantee the future of this valuable award.

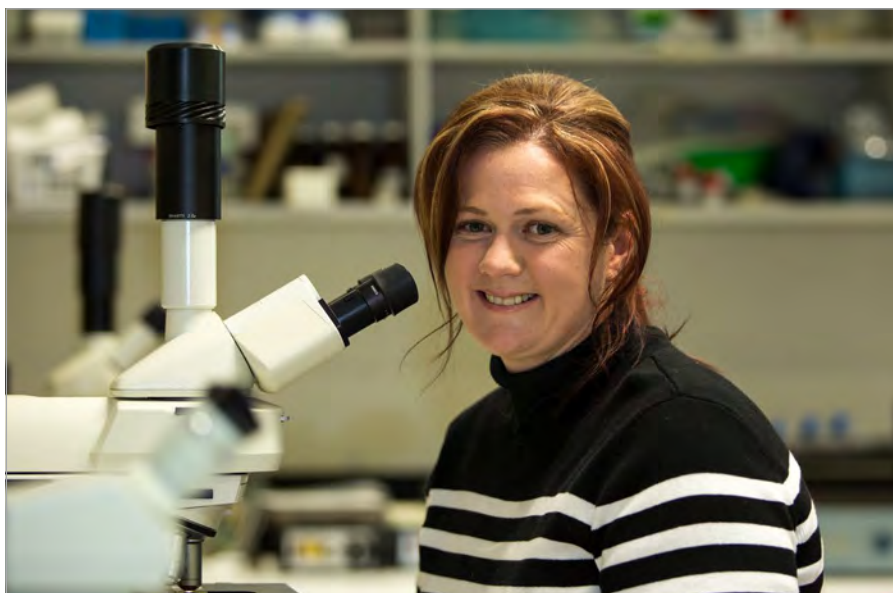
PhD students Ms Melissa Houghton from the University of Queensland and Mrs Charlie Phelps from Edith Cowan University are the 2018 recipients of the Australian Academy of Science Max Day Environmental Science Fellowship Award.

The Max Day Environmental Science Fellowship Award is an annual award of up to \$20,000 per awardee to assist early stage PhD students or early career researchers with their research. Funds support the costs of travel, courses or research expenses.

The award is named in honour of the late Dr Maxwell Frank Cooper Day AO FAA, who spent a lifetime championing entomology, conservation and forestry, as well as helping other scientists. Through sponsoring this award, Dr Day is acknowledging the support that he himself received as a young researcher to travel overseas to gain his PhD at Harvard. Following Dr Day's strong belief in the strength of a multi-disciplinary approach to research, only applicants who are able to demonstrate a multi-disciplinary approach to their research are considered for this award.



Melissa Houghton will study insects, spiders and other invertebrates on Macquarie Island.



Charlie Phelps will study the effects on kelp of bacteria, increasing temperature and kelp-eating organisms.

Donors

This award has been made available through generous contributions from the following individuals:

Presidents' Circle

(Donations of or valued at \$100,000 – \$499,000)

- Dr Maxwell Frank Cooper Day AO FAA
- Jon Day PSM

Science Circle

(Donations of or valued at \$20,000 – \$99,000)

- Doug Hooley PSM

AWARD SUPPORTERS

Donations of or valued at \$1,000 – \$4,999

- Emeritus Professor Patrick De Deckker AM FAA HonGSL

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- Mr Nicholas Benson
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Donations up to \$499

- Mrs Elizabeth Allen
- Dr Peter Coyne
- Dr Alana Grech
- Professor Alec Lazenby AO
- Dr Libby Robin
- Ms Suzanna Rumon

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Other Academy awards supported by philanthropic donations and bequests



Travelling fellowships have been awarded to (from left) Dr Christina Kellogg (2018 Rudi Lemberg Fellowship), Professor Stefanie Dimmeler (2018 Selby Fellowship) and Dr Graham Nugent (2018 Graeme Caughley Fellowship)

The Margaret Middleton Fund for Endangered Australian Native Vertebrate Animals

This fund offers annual science grants of up to \$15,000 each to support field-based, high-quality ecological research. The objective of the grant is to provide financial support for conservation-based research of Australian ecosystems (including off-shore islands and the continental shelf) that ultimately will lead to tangible outcomes for management. The scope of the research is open to terrestrial, marine and freshwater research on vertebrate animals.

2018 Anton Hales Medal Award

Following Hales's death in 2006 at the age of 95, a gift from the McDougalls saw the establishment of an award named in his honour. Professor McDougall was one of the first members of staff recruited to Hales's new school, where they worked together over the following decades. Like Hales, McDougall is also an internationally distinguished Earth scientist.

2018 Travelling Fellowships

The Selby Fellowship, the Rudi Lemberg Travelling Fellowship and the Graeme Caughley Fellowship were initiated by donations and bequests.

2017 Douglas and Lola Douglas Award

The Douglas and Lola Douglas Scholarship in medical science was made possible through a generous bequest made by Lola Rachel Maude Douglas, a philanthropist with a keen interest in medical research. Her main charity was the Royal North Shore Hospital in Sydney but one of her great wishes was to support young researchers and this bequest enables the Academy to help to fulfil this wish.

2018 Thomas Davies awards

The Thomas Davies Research Grant for Marine, Soil and Plant Biology is funded through a generous philanthropic bequest from the estate of the late Thomas Lewis Davies to the Australian Academy of Science.

The Fund offers annual science grants of up to \$25,000 each to early- and mid-career researchers.

Moran Award for the History of Science Research

The Moran Award is aimed at postgraduate students and other researchers with expertise in the history of Australian science. Its purpose is to support access to archives that record the history of science in Australia, especially by younger researchers, and it can be used towards travel and accommodation costs.

For more information on supporting young scientists, please contact our Development and Stewardship Manager, Ms Isobel Griffin at the Australian Academy of Science. Email isobel.griffin@science.org.au tel 02 6201 9471



Making better humans—National Speaker Series

In 2017 the Academy ventured into a world of make-believe-come-true, a world completely fabricated from the imaginations of extraordinary scientists and engineers.

This second National Speaker Series by the Academy brought to the main stage the science of polymers, which are working to destroy cancer cells, make aeroplanes lighter, strengthen windscreens and even give us the ability to create artificial muscle tissue from fishing line that reacts in a similar fashion to our muscle tissue.

In this polymerised world nothing is off-limits: new uses for polymers are being developed to purify water, enable us to paint a whole structure in solar-conducting materials to generate energy, and even recycle waste products to clean up environmental disasters.

The Academy acknowledges the generous support of Academy Fellow and developer of the polymer banknote, Professor David Solomon AC FAA, and of the organisations below whose support made the series possible.



The Academy made a short video for social media on the development of polymer banknotes.





Dawn of the New Space Age—Canberra Speaker Series

This series at the Academy's Shine Dome in Canberra brought together a collection of the top minds in space research to share their discoveries. They showed how their work spans the exploration for extraterrestrial life, the hunt for habitable planets, what planets like Jupiter are

really made of, how time works in space, how we are continuing to explore the outer reaches of our planet and how we can clean up space junk using lasers.

We acknowledge the growing number of donors who support this event, listed

below, with a special thank you to Jirra Wines at Jeir Station and The Edge Catering for their support of these and other Academy events across the year.



**Australian
National
University**

School of Astronomy and Astrophysics

JIRRA WINES AT
JEIR STATION



Colin and Kay Andrews, owners of Jirra Wines at Jeir Station, are hands-on in their vineyard which surrounds the historic Jeir Station Homestead. The winemaking team is Rob Howell and Greg Gallagher, two of the most experienced winemakers in the Canberra district. Both winemakers live close to Jeir Station and understand the local climate and grape growing conditions very well.



'I attended the Australian Citizen Science Association Conference last Thursday and Friday at the Shine Dome in Canberra at which I picked up your business card. I just wanted to say what a fantastic job you and your team did! The food was fantastic, staff were friendly, helpful and professional, and the presentation was great.'

Donor roll of honour

The Australian Academy of Science acknowledges the support of donors who gave generously over the past 12 months. Their support plays a critical role in helping the Academy achieve its mission.

Presidents' Circle

(Donations of or valued at \$100,000 – \$499,999)

- Dr Maxwell Day AO FAA
- Telstra Corporation

Science Circle

(Donations of or valued at \$20,000 – \$99,999)

- Doug Hooley PSM
- Dr Margaret R Middleton
- Dr Anna Rickards
- Professor David Solomon AC FAA FRS FTSE
- Anonymous (1)

Academy Supporters

Members of all other donor groups receive acknowledgement in the Academy's annual report and acknowledgement on the website, and receive regular donor updates and quarterly newsletters. The Academy is pleased to welcome donors into our giving programs, enabling us to thank and recognise them for their commitment in their giving.

(Donations of or valued at \$10,000 – \$19,999)

- Selby Scientific Foundation
- Anonymous (1)

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(Donations of or valued at \$5,000 – \$9,999)

- Professor MN Barber FAA FTSE
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Academy Associates

(Donations of or valued at \$1,000 – \$4,999)

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NOTE: Every effort has been made to ensure the accuracy of this report. We sincerely apologise if any error or omission has occurred. If you notice an error or omission please notify Academy of Science on **02 6201 9400**.

All donations will be acknowledged for a period of twelve months. This list is updated quarterly. Last updated November 2017

Indigenous Scientist Award coming soon

In 2018, the Australian Academy of Science will launch the Indigenous Scientist Award. A generous donation from an anonymous donor has seen the establishment of this award that will be launched at Science at the Shine Dome in May.

This will be a competitive award to support outstanding Australian Indigenous (includes Aboriginal and Torres Strait Islander) scientists in the natural sciences. Its purpose is to:

- expand Australian Indigenous scientists' research networks, helping to build on and grow international research collaborations and knowledge exchange by visiting relevant international centres of research
- contribute to the Academy's objective to celebrate excellence and diversity in science.

It is envisaged that the award will be made to two Indigenous researchers with each award valued at \$5500.

This funding could be used to support an international research visit as well as travel to Science at the Shine Dome, providing valuable networking opportunities for the recipients.

The Academy will be working to match the initial donation of \$250,000 (to be contributed over five years) so that the future of this valuable award can be secured. If you would like to donate to this award or find out more information, please contact Isobel Griffin, Manager Development and Stewardship.

Right: Sash Gwion Gwion on Mitchell Plateau NW Kimberley.
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