

ANNUAL REPORT 2019

The Trustees of the AW Howard Memorial Trust met as a committee on the 30th April 2019 and the 8th November 2019. Advice was considered from the Trust's Research sub-committee on the awarding of Grants, Scholarships and Research Fellowships.

Five **Travel Grants** of up to \$5,000 were awarded.

Name	Employer	Travel Grant Details
Andrew Smith	University of Melbourne	Workshop on lucerne physiology and modelling (\$2,900)
Bonnie Flohr	CSIRO	Present paper at The American Society of Agronomy, the Crop Science Society of America and the Soil Science of America International meeting (\$5,000)
Celine Mens	University of Queensland	Present paper at the 9th International Conference for Legume Genetics and Genomics, Dijon, France & the 3rd International Legume Society Conference, Poznan, Poland (\$3,000)
Daniel Kidd	University of WA	Attend Rhizosphere 5 Conference and study tour of University of New Hampshire (\$5,000)
Gabrielle Lebbink	University of Queensland	Present paper at The International Grassland & Rangeland 2020 Congress (\$5,000)

Two **Grants-in-Aid** of up to \$5,000 were supported.

Name	Employer	Grant Details
Rob Shea	Perennial Pasture Systems	Commission 2 papers to be presented by the authors at the 11th Annual PPS Conference to be held Ararat Victoria on September 11th, 2019 (\$4,600)
Adam Hancock	Grassland Society Limestone Coast committee	fund a project to assess all copper fertiliser products that are un-exclusively and readily available to growers for their effectiveness in increasing copper levels in local pasture systems (\$5,000)

One **Travel Grant for Australian Graziers or Rangeland Pastoralists** was awarded.

Name	Employer	Grant Details
Bron Christensen	The Leucaena Network	Enhance and strengthen linkages between Latin America and Australia through knowledge sharing of agro-forestry systems, which integrate livestock with trees, forests, cropping and fodder (\$20,000)

Early-Career Research Grant

A new Early-Career Research Grant, of up to \$15,000, was introduced by the Trust to support research activities that improve the development, management and use of pastures. One grant was awarded.

Name	Institution	Details
Rebecca Vandegeer	Hawkesbury Institute for the Environment – Western Sydney University	Investigate the main and interactive effects of drought, insect herbivores, silicon and endophytes on pasture growth (\$14,988)

Honours Scholarship

Five applications were received for an Honours Scholarship (\$5,000 stipend, \$3,000 operating) and three were awarded.

Name	Institution	Details
Jessica Wyse	Charles Sturt University	Characterisation of coumestans and measurement of their concentrations in the blood of beef cattle grazing lucerne
Eliott Reed	University of Western Australia	Management and environmental factors that affect phytoestrogen synthesis in subterranean clover.
Ryan Malone	Charles Sturt University	Using leaf area and thermal time to predict phalaris response to nitrogen application (subject to minor change)

Howard Fellowship

Two applications were received for an AW Howard Research Fellowship and one was awarded. The Fellowship is valued at \$10,000 per annum until the completion of the candidate's PhD for a maximum of 3½ years.

Name	Institution	Details
Laura Goward	University of Tasmania	The physiology of flowering and seed production in serradellas; promising alternative pasture legumes for Southern Australia Research Start Date: Jan 2020

Tim Healey Scholarship

Thirteen applications were received for the Tim Healey Scholarship and four were awarded. The Scholarship is valued at \$10,000 per annum until the completion of the candidate's PhD for a maximum of 3½ years.

Name	Institution	Details
Alyce Dowling	University of Adelaide	Nitrogen and phosphorus nutrition effects on the nutrient dynamics of oilseed-pulse intercropping: crop yield, nutrient accumulation and nutrient use efficiency. Research Start Date: Feb 2019
Angus Rae	Australian National University	Identification of a new metabolic signal controlling the infection of legume roots with rhizobia. Research Start Date: Feb 2019
Harry Myrans	Monash University	Determining the species distributions, habitat suitability and conservation prospects of sorghum's wild relatives. Research Start Date: Aug 2018
Pieter Hendriks	Charles Sturt University	The role of root architecture and associated rhizosphere interactions in breeding for weed competitive wheat cultivars. Research Start Date: Oct 2018

Howard Medal and Oration

The AW Howard Trust Medal was awarded to Charlie de Fegely at the 19th Australian Agronomy Conference in Wagga Wagga. The medal was presented by Alison Southwell, on behalf of the Trust.

Financial Adviser

Andrej Wojciechowski from Ord Minnett, assisted by Jeff Glasson, have continued to advise the Trust on its investment portfolio. Details are in separate Financial Statements for 2019.