

ANNUAL REPORT

2011 – 2012

Cambridge Australia
Scholarships Limited
ACN 146 517 366



BACKGROUND

Cambridge Australia Scholarships Limited (CAS), ACN 146 517 366, was incorporated on 24 September 2010 as a not-for-profit company limited by guarantee.

Its Constitution, and details of its operations, are available on the website: www.cambridgeaustralia.org.au.

As a result of 2010 changes to the *Corporations Act (Cth)*, CAS is considered a small company limited by guarantee with consolidated revenue less than the statutory threshold of \$250,000. As such it is not required, unless directed to do so under specified circumstances, to:

- prepare a financial report or have it audited;
- prepare a directors' report; or
- notify members of annual reports.

However, given that the directors of CAS intend to operate, wherever possible, in accordance with good corporate governance principles, CAS has published this Annual Report and its accounts.

Abbreviations used in this Report

- CAS Cambridge Australia Scholarships Limited
- CCT Cambridge Commonwealth and Overseas Trusts
- CAT Cambridge Australia Trust (predecessor organisation to CAS)
- ANU Australian National University

CHAIR'S REPORT

A clear focus and strategy for next year 2012/13

2011-12 has been a year of consolidation for Cambridge Australia Scholarships (CAS). This year four Ph.D degree scholarships and five Masters degree half scholarships have been awarded (see pages 6 & 7 for details). Other highlights include:

- the award of the first Charlie Perkins Cambridge scholarship for an indigenous Australian (Lillian Brown) to attend Cambridge, in conjunction with the Charlie Perkins Trust
- formalising for the first time by Memorandum of Understanding our relationship with the Cambridge Commonwealth Trust
- Appointing an Administrator, Justine Koster, (commencing August 2012) to support the board in advancing the activities of CAS.

For the coming year the board is focused on:

- establishing new half scholarships for Masters degree study, for NSW and Queensland, to complement those established some years ago for Victorians
- consolidating our arrangements with our existing donors
- establishing arrangements with new donors, which I am excited to say in several instances are well underway

CAS exists for one purpose only: to support the best and brightest Australians to study at one of the world's leading universities. As I have said before, around 1,000 Australians have been, directly or indirectly, supported by CAS (and its predecessor, the Cambridge Australia Trust) since the mid1980s. These alumni are now in significant positions of global leadership across a range of areas including Government, business, the professions, academia and science.

We should be collectively proud of this, and grateful to the generous donors who have made these achievements possible. CAS receives no public support; what has been achieved to date – and will be in the future – depends solely on the generosity of individuals and organisations.

**Richard Dammery, Chair
(Trinity, Ph.D, 1987)**

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DIRECTORS

The Constitution of CAS states that the Company must have a minimum of four, and not more than twelve, directors. Directors are appointed for a period of 2 years, and may be re-elected for up to three consecutive terms. Where possible, the Board should be nationally representative: i.e. have a representative who is resident in each State and Territory.

During 2011-12, the directors of CAS were:

Dr Richard Dammary, Chair (VIC)

Richard completed a Ph.D at Trinity College between 1987 to 1990. He is currently a corporate partner of Minter Ellison Lawyers, based in Melbourne.

Dr James Forrest (VIC)

James completed a Ph.D in Engineering at Pembroke College from 1995 to 1999, as a Packer Cambridge Australia scholar. He is now a senior research scientist at the Defence Science and Technology Organisation (DSTO) in Melbourne.

Mrs Taruna Heuzenroeder (SA)

Taruna completed an LLM at Gonville and Caius College in 2007, supported by the Cambridge Commonwealth Trust. She is currently an Associate at Lipman Karas, a specialist legal practice.

Dr Dominic Katter (QLD)

Dominic read for an MPhil at St Edmund's College in 1998-1999. He was a Wakefield Scholar and received a bursary from the Cambridge Commonwealth Trust. Dominic is at the Queensland Bar, where he has a commercial practice.

Mr Patrick Moore (Vic)

Patrick is a donor to Cambridge Australia Scholarships, having established the Masters scholarship program in Victoria. He matriculated in 1963 as an undergraduate at St Catharine's College. He read Economics and Law. He is a keen oarsman, having rowed for the university in the 1965 Blue Boat.

Professor Nic Peterson (ACT)

Nic is Professor of Anthropology at ANU, and Secretary of Cambridge Australia Scholarships Ltd. He was at King's from 1960-1963 reading archaeology and anthropology.

Dr Paul Schreier (ACT)

Paul is a Deputy Secretary in the Department of the Prime Minister and Cabinet. He was an undergraduate and Ph.D student at Queens' between 1987 and 1994, subsequently serving in the Royal Navy and working as a partner at McKinsey & Co.

Mr Alistair Newmarch (NSW)

Alistair completed a MA in Geography from St Edmunds College between 2001- 2003. He is currently an Investment Director at Archer Capital, a private equity firm based in Sydney.

Professor Allan Barton (ACT) (Dec'd)

Those familiar with CAS, and members of the Cambridge community in Australia more generally, will be sad to learn of the death of Emeritus Professor Allan Barton, one of the driving forces of the Cambridge Australia Trust and a foundation director of CAS.

Allan was involved with the Cambridge Australia Trust since its inception in the mid 1980s, acting as its Treasurer from 1996-2010. He was a Visiting Fellow and Emeritus Professor in the College of Business and Economics at the ANU, and a former Pro Vice-Chancellor and Treasurer of ANU (1984-96). He undertook his Ph.D in economics at Christ's College 1956-59, and was a regular Visiting Fellow to Wolfson College.

Board Committees

The board has formed a number of committees to focus on its key activities. These are as follows:

- Finance (Chair: Paul Schreier)
- Ph.D Scholarship (Chair: Nic Peterson)
- Masters Scholarship (Chair: James Forrest)
- Alumni and Promotions (Chair: Patrick Moore)

SCHOLARSHIPS SUB-COMMITTEE REPORTS

Ph.D Scholarships Selection Panel Report 2012

Four applicants received a scholarship offer. One of these was a deferral from 2011. The final four CAS Ph.D scholars for 2012 are listed below:

The committee considered 30 applications provided by the Cambridge Commonwealth Trust. It met on 19 March 2012 at the ANU in Canberra to discuss scholar rankings and its recommendation to Cambridge.

The membership of the selection committee was Professor John Love (ANU, Chair), Professor Anona Armstrong (Victoria University), Associate Professor Anthony Cassimatis (University of Queensland), Associate Professor Andrew Fitzmaurice (University of Sydney), Professor Nicolas Peterson (ANU) and Ms Liz Walters assisted the committee.

Name	Subject	Scholarship
Mr Jason Allen	Legal Studies	Cambridge Australia Poynton Scholarship
Miss Georgina Hutton	Chemistry	Cambridge Australia Poynton Scholarship
Mr James Kane	History	Cambridge Australia Poynton Scholarship
Miss Chloe Shard	Physiology/Development & Neuroscience	Cambridge Australia McCrum Scholarship

Victorian Masters Scholarships Selection Panel Report 2012

The names and application forms of 11 candidates were provided to the panel by the Cambridge Commonwealth Trust. Candidates must be graduates of Victorian universities or Victorian born to be eligible. Interviews were conducted on 6 June 2012 at the offices of Minter Ellison Lawyers in Melbourne, in person or by teleconference.

The members of the selection panel for the CAS Victorian Masters Scholarships this year were James Forrest (chair), Jerry Platt and Gillian Shepherd.

The following awards were recommended:

Name	Subject	Scholarship
Ms Fiona Cochaud	MPhil International Relations	Cambridge Australia Allen Scholarship
Miss Olivia Draudins	MCL Corporate Law	Cambridge Australia Allen Scholarship
Mr John Fitzsimons	MPhil Economics	Patrick Moore Cambridge Australia Scholarship
Mr Alexander Fleming	MPhil Management	Patrick Moore Cambridge Australia Scholarship

Other Scholarships

A fifth Masters candidate received the Charlie Perkins Scholarship, awarded in conjunction with the Cambridge Commonwealth Trust and the Charlie Perkins Trust.

Name	Subject	Scholarship
Ms Lillian Brown	MPhil Education	Charlie Perkins Scholarship

SCHOLARS IN RESIDENCE REPORTS

	<p>Name: Gareth Ainsworth</p> <p>Degree & Subject: PhD Pure Mathematics</p> <p>Academic Year awarded: 2011</p> <p>College: Trinity College</p> <p>Scholarship: RA Fisher Cambridge Australia Scholarship</p>
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2011-2012 Scholar Report

I am currently coming to the conclusion of the first year of my PhD at Trinity College, Cambridge. I work under Professor Gabriel Paternain in the Department of Pure Mathematics and Mathematical Statistics. My research lies within the field of Differential Geometry. Specifically, I have spent the past year investigating various inverse questions associated with magnetic flows on Riemannian surfaces. Although I tackle these questions from a purely abstract geometric viewpoint, this area of mathematics finds applications in fields wherever one is presented with a problem of the following sort: given a particular geometry about which one can only make measurements from the boundary, under what circumstances can we reconstruct the geometry of the interior region.

Many areas of applied science are faced with these very problems, i.e. medical imaging, geophysical prospecting, invisibility technologies etc. For the month of April I had the privilege of attending the “Program on Geometry in Inverse Problems” at the Fields Institute, Toronto, as part of their “Thematic Program on Inverse Problems and Imaging”. This conference brought together many of the leading academics in the world in the area of mathematical inverse problems, and I had the benefit of meeting with them, and learning from them. This was a tremendous opportunity for me and whilst there I wrote a paper resolving several open problems to do with tensor tomography and the injectivity of magnetic ray transforms. In addition, whilst at the Fields Institute I had the honour of getting to know the Fields medallist Charles Fefferman from Princeton.

At the moment my research is continuing, as I consider questions to do with tensor tomography and spectral rigidity on Anosov surfaces.

Michaelmas term starts up again in October, and it is likely that I will conduct supervisions for undergraduate students in mathematics at that time.

Outside of my studies I have enjoyed spending my time hiking in the Lake District and in Scotland, I regularly attend my local church, St. Andrew the Great, and I am heavily involved in the social life at Trinity.



Name: Alysia Blackham

Degree & Subject: PhD Legal Studies

Academic Year awarded: 2011

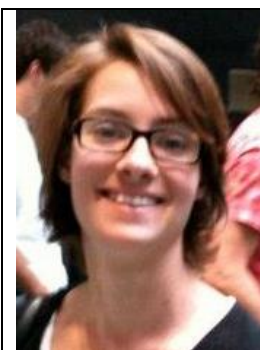
College: Gonville & Caius College

Scholarship: Poynton Cambridge Australia Scholarship

2011-2012 Scholar Report:

I am commencing the second year of my PhD in Law at Gonville and Caius College. My thesis explores employment security from a socio-legal perspective, using qualitative and quantitative empirical research methods to investigate options for re-casting employment law in an age-neutral manner.

Currently, I am the student Chair of the Cambridge Pro Bono Project, a radio presenter on the CamFM student radio station, and am learning Italian and taking yoga, pilates and ballroom dancing classes in my spare time. I have been accepted into the Programme in European Private Law for Postgraduates (a selective multinational law teaching program) for 2012-13 and will be supervising Constitutional Law at Trinity College and Selwyn College from October 2012.



Name: Alexandra Graham

Degree & Subject: PhD Physics

Academic Year awarded: 2010-11

College: Clare College

Scholarship: Poynton Cambridge Australia Scholarship

2011-2012 Scholar Report:

I have been in Cambridge for almost two years now, and the Cambridge life is still as good as ever! The PhD project that I came here to do unfortunately failed. I proved, by last Christmas, that the experiment could not be initiated in the correct way, so the effect that I was hoping to see would never be seen. Due to a lot of technical and other theoretical issues, this project has now been abandoned. It took me about 3 months to then find a new project, hoping to start and finish in a two year time frame. The project I am now working on is on Nano-Wires.

I am investigating the localisation mechanisms of excitons along these wires by examining the spectral and temporal response of the system. So far I have successfully identified carrier localisation mechanisms, and am currently advancing the project further.

In my spare time I have been playing in a jazz/funk band along with a few other friends here at the Cavendish. We have done some very fun gigs at various locations around Cambridge, and are also called upon when the Cavendish needs a little bit of entertainment! I have also been playing hockey, going running, and have taken part in the 'purple shin' competition, which is the Cavendish soccer competition. I was the only girl in the competition, but I think that it worked in my favour as the boys seemed a little more anxious to make a tackle.

I have also been doing some science demonstration classes. I volunteered at the CHAOS science show earlier this year and enjoyed it so much that I have now been giving demonstration classes to language school students who wish to also learn scientific English. This has been very rewarding and I am thinking of other ways to communicate science to people who may otherwise not stumble upon it.

I think that my greatest non-academic accomplishment has been to not be knocked off my bike!



Name: William J Menz

Degree & Subject: PhD Chemical Engineering

Academic Year awarded: 2010-11

College: Sidney Sussex College

Scholarship: Poynton Cambridge Australia Scholarship

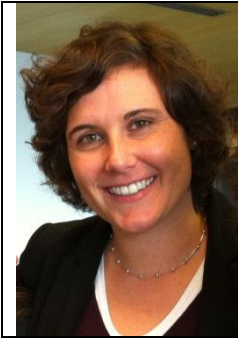
2011-2012 Scholar Report

Having started my PhD in Chemical Engineering in October 2010, I am now coming to the end of my second year of study. In this time, I have enjoyed many of the academic and extra-curricular delights that Cambridge has to offer.

As a member of the Computational Modelling Group, my research focuses on modelling of the structure and synthesis of nanoparticles. This primarily involves development of algorithms and computer code which can quickly and accurately solve the complex mathematical equations governing the particle formation process. At the present time, one of my articles has been [published](#) and another is under [review](#). I was also awarded the Department of Chemical Engineering and Biotechnology's First Year Prize for the work from which my first article was composed.

I am also very active in life at Sidney Sussex. In 2011/2012 I was a 'Social Secretary' for the MCR, requiring me to organise many of the events held for graduate students. Then, in March 2012, I was elected MCR President, a role responsible for representing graduate views in College. I'm also a member of Sidney's Boat Club, where I have rowed in the first and second crews in the Bumps races.

I intend to complete the work required for my PhD in the coming year. I would like to take this opportunity to thank the Cambridge Australia Trust for providing funding to undertake this work.



Name: Julia Elizabeth Powles

Degree & Subject: PhD Legal Studies

Academic Year awarded: 2010-11 (commenced Easter 2011)

College: St John's College

Scholarship: Poynton Cambridge Australia Scholarship

2011-2012 Scholar Report:

I commenced my PhD in law in April 2011. My research focuses on how inventions are identified for the purpose of applying patent law. I look critically at an approach to construction that has emerged amongst UK judges in the last 30 years and which places priority on the identification of an 'inventive concept'. My work-to-date shows that this approach leads to inconsistent and unpredictable results within patent law. It obscures, rather than clarifies, the boundaries of patentable inventions. I have looked particularly at the areas of inventorship (the subject of my first year paper, which was passed without revision in a viva in December 2011), unity of invention, and the inventive step test. In coming months I will look at questions of description and infringement, and extend my analysis to a second jurisdiction: Germany. Comparative study is necessary for two reasons. First, the inventive concept approach has its heritage in German law, though it has now been abandoned in Germany. Second, in the last year rapid advances have been made towards a Unitary Patent and Unitary Patent Court in Europe or, at the very least, a greater degree of substantive patent law harmonisation. Understanding the strengths, weaknesses and overlaps in the German and UK approaches to identifying inventions is critical to the future of patent law in Europe, domestic European systems, and in jurisdictions that draw heavily on either the German or UK tradition (such as Australia).

During this first phase of my PhD, when exposure to new ideas and networks has been most critical, I have benefited considerably from my membership of the Faculty of Law, the Centre for Intellectual Property and Information Law (CIPIL), the broader University, and St John's College. Within the Faculty, I completed the Research Training and Development Programme for first year PhDs and attended seminars relating to patents in the two LLM intellectual property courses. At CIPIL, Prof. Lionel Bently has been an excellent supervisor and mentor. Together we coordinated a seminar series on intellectual property, involving 12 invited speakers and a broad range of topics. This will continue in 2012-13. I also benefited from participating in a reading group on philosophy and intellectual property organised by a CIPIL colleague. Through the broader University I have attended a large number of undergraduate and master's courses in the Department of History and Philosophy of Science. These well-taught and organised lectures have provided a framework for understanding unfamiliar areas of scholarship and stimulated new thoughts and avenues for further research. I also attended some 30 general lectures around the campus, four day-long conferences (Digital Humanities Workshop 2011, CUTEC Technology Ventures Conference 2011, CIPIL Spring Conference 2012, and London Patent Forum 2012), and participated in a series of IT-training programs on word processing, reference management, and web authoring. Finally, as is common for Cambridge students, participating in college life has contributed immeasurably to my experience. At St John's I have enjoyed splendid concerts in the Master's Lodge and the Chapel; receptions, ghost stories and a semi-staged production of Wordsworth's *The Borderers* in the Combination Room; memorable dinners in Hall; the intensity and passion of rowing for Lady Margaret Boat Club; art classes and workshops in the Art Room; and a vast array of events and activities with the graduate society, the Samuel Butler Room Society, where I have held the role of Publicity Officer and Vice President. Also over the last year I ran a number of half marathons and in April ran the Paris Marathon along with a group of 30 friends. I hope that my range of activities would meet the approval of the late medical doctor and collector, Dr. John Orde Poynton AO, and other donors to the Cambridge Australia Scholarships that have made this wonderful experience possible.

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Name: Jonathan Scarlett

Degree & Subject: PhD Engineering

Academic Year awarded: 2011

College: Trinity Hall

Scholarship: Poynton Cambridge Australia Scholarship

2011-2012 Scholar Report:

PhD Research:

- Studying in the field of Information Theory, which aims to develop mathematical insights and performance limits for various types of communication
- Have given technical presentations both within and outside the group
- Recently had two papers accepted for publication in conference proceedings (Allerton Conference on Communication, Control and Computing)
- A journal paper is in preparation

Non-Research:

- Took two coursework modules, received marks of 51 and 58 (out of a possible 60)
- Did lab demonstrating and marking throughout Lent term, and have recently given some supervisions on an introductory communications subject
- Learning Spanish both independently and via the Engineering language centre (received a distinction for the Lower Intermediate course, and will probably enter the Upper Intermediate course this year)



Name: Daniel Strange

Degree & Subject: PhD Engineering

Academic Year awarded: 2009-2010

College: Christ's College

Scholarship: Poynton Cambridge Australia Scholarship

2011-2012 Scholar Report:

I undertook a PhD in Engineering in Cambridge from 2009-2012. I had already completed a BA/MEng at Cambridge investigating biomedical materials for bone replacements and for my PhD worked with the same supervisor to develop new materials that could be used to replace the intervertebral disc for the purpose of treating severe chronic back pain.

I have enjoyed working with a wide range of researchers in the Engineering Department, as well as attending the numerous talks/seminars that were held there. I became an associate of the Nano science Doctoral Training Centre, which allowed me to meet researchers working with nano technology in various university departments.

In my spare time, I was also heavily involved with the Cambridge University Spaceflight society, which experiments with rockets and high altitude balloons in near space. With the society, I helped co-manage a 1.5 year long project for the European Space Agency, developing a method to characterize parachute deployment in Mars-like conditions. I also worked with the society to build a two-stage rocket in an attempt to break the UK amateur rocketry altitude record.

While at Cambridge, I also took full advantage of the numerous college travel grants that were available and ventured to Egypt to see the Pyramids and other sites. I also travelled to several other countries including the USA and Spain to attend conferences and workshops.

Cambridge is a brilliant place to study. It has a fantastic collection of people, all interested in so many different things. Whether it's a hobby or a research interest, someone in the university is likely to be pursuing it to the "highest level". "There's a great breadth of experience and expertise to draw on".

Name: Matthew Young
Degree & Subject: PhD Astronomy
Academic Year awarded: 2011
College: Jesus College
Scholarship: Poynton Cambridge Australia Scholarship

2011-2012 Scholar Report:

The past year at the University of Cambridge has led to a number of invaluable academic and non-academic experiences. Academically, I have learnt a huge amount about the evolution of accretion discs (discs of gas orbiting a massive central object), which was a new field to me when I started. I have focused on how discs of gas and dust around young stars may be able to collapse under their own gravitational pull and form giant planets or small stars. I have written my first paper in this field, which describes a method for improving the treatment of radioactive cooling in simulations of such discs and is currently in the final stages of review in the Monthly Notices of the Royal Astronomical society. I have benefited enormously from the knowledge, support and expertise of my supervisor and the many experts that either work at or have visited Cambridge in the past year. I was also a supervisor for a course on Astrophysical Fluid Dynamics, which was immensely rewarding.

On the non-academic side, I have been extensively involved in the public outreach program at the Institute of Astronomy (IoA) where I study. I helped organise and ran a demonstration of the Mars rovers as part of science week, gave a public presentation on the role of computer simulations in Astronomy and regularly volunteer at public observing evenings. In my spare time I have created a website, sciteit.com, with the aim of facilitating discussion, discovery and communication of scientific research within the scientific community. I presented a poster on this project at the annual graduate conference at Jesus College.

FINANCIAL REPORT

It should be noted that the board resolved during the year to change the financial reporting period from 30 June to 31 December to align with ANU's reporting period. This will ensure consolidated reporting and preparation of accounts of CAS financial activities and the performance of funds held in the CAS fund within the ANU Endowment for Excellence.

Refer to document:

Saward/Dawson Chartered Accountants

Cambridge Australia Scholarships Limited

Financial Report for the year ended 31 December 2011.

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