

# EVOLUTION & ECOLOGY RESEARCH CENTRE

## 2013 ANNUAL REPORT

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The Evolution & Ecology Research Centre (E&ERC) was formally established in September 2007, and this Annual Report covers the operation of the centre for 2013.

### Summary

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- In 2013, the total amount of research funding for the Centre was \$4.689 million. This comprised of \$1.827m ARC Discovery Project funding, \$1.971m other NCGP grants and \$891,000 of external grants.
- E&ERC members published 183 publications in 2013.
- The E&ERC offered 16 seminars throughout 2013, featuring a number of overseas visitors – Professors Terrie Williams and Felisa Smith, Drs Christian Rutz and Robert Stephenson
- A successful Distinguished Visitors program was hosted by A/Prof Tracey Rogers in September with Professors Felisa Smith and Terrie Williams.
- There were a total of 59.5 equivalent full time postgraduate enrollments in 2013 and 12 PhD completions.
- The Graduate Program in Evolution & Ecology continued to consolidate its offerings. There were 3 workshops in 2013 as part of the PG Skills Transfer and Writing Scholarships, they were conducted by 3 PhD graduates, Marie Attard, Katelyn Edge and Anna Namyatova.
- In 2013 there was an increase in media stories compared to previous years, 49 in total. These stories featured across, television, radio and press. Broad participation of members in *The Conversation* continued in 2013.
- A number of Centre members and students received recognition within UNSW and in the broader sphere for their research and work by winning prestigious awards and prizes, including Professor Angela Moles who won the Frank Fenner Prize for Life Scientist of the Year at the Prime Ministers Science Awards and Centre Director Rob Brooks who won the 2013 Australian Museum Eureka Prize for Promoting Understanding of Australian Science Research. A/Prof David Warton was recognized as Supervisor of the year at the Faculty of Science at the University's Postdoctoral Academy Awards on 5 December, 2013
- In July the E&ERC website was re-launched in line with the UNSW branding.

**Table 1. Evolution & Ecology Research Centre  
Performance Data for 2007-2013**

		2007	2008	2009	2010	2011	2012	2013
<b>NCGP Grants</b>								
	Discovery (\$M)	895	1,292	2,542	2,060	2,454	1,866	1,827
	Other (\$M)	597	638	657	1,480	1,140	1,899	1,971
	TOTAL	1,492	1,930	3,199	3,540	3,594	3,765	3,798
<b>AIM</b>		<b>1,370</b>	<b>1,600</b>	<b>1,900</b>	<b>2,300</b>	<b>2,500</b>	<b>2,800</b>	<b>3,100</b>
	Mean grant size (DP only)	99	108	127	114	144	124	107
	Discovery (n)	9	12	20	18	17	15	17
	Other (n)	7	6	7	10	10	18	15
	TOTAL	16	18	27	28	27	33	32
<b>OTHER EXTERNAL GRANTS</b>								
	Number	6	17	20	18	10	18	20
	Value (\$,000)	600	1113	1942	2066	941	1051	891
<b>AIM (\$,000)</b>		<b>350</b>	<b>425</b>	<b>500</b>	<b>1000</b>	<b>1000</b>	<b>1000</b>	<b>1000</b>
<b>POSTGRADUATE NUMBERS</b>								
	PhD Enrolments (<7 sess FT)	26	42	45	51	63	57	56
	Masters	1	3	8	11	9	7	7
	Weighted (Mphil = 0.5*PhD)	26.5	43.5	49	56.5	67.5	60.5	59.5
<b>AIM</b>		<b>26.5</b>	<b>31.5</b>	<b>36</b>	<b>46.5</b>	<b>50</b>	<b>55</b>	<b>60</b>
	PhD completions	5	7	3	4	13	11	12
	Masters completions	0	1	2	9	3	0	3
	Weighted (Mphil = 0.5*PhD)	5	7.5	4	8.5	14.5	11	13.5
<b>AIM</b>		<b>8</b>	<b>9.5</b>	<b>12.5</b>	<b>11</b>	<b>13</b>	<b>15</b>	<b>15</b>
<b>PUBLICATIONS</b>								
	Publications	94	70	105	105	94	92	183
<b>AIM</b>		<b>48</b>	<b>54</b>	<b>75</b>	<b>88</b>	<b>92</b>	<b>96</b>	<b>100</b>

## Centre Performance

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A Summary of the centre's performance for the year in relation to its identified aims and strategies, and an indication of major goals for the coming year

### Membership

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The E&ERC comprised of 30 members in 2013, 20 of whom were continuing members of staff and 10 were non-continuing research fellows or associates. Members came from three schools within the Science faculty, BEES, BABS and MATHS.

In 2013, Centre members held one APF (Brooks), four QEII (Brown, Moles, Tanaka and Wroe), one ARF (Johnston), four Future (Bonduriansky, Curnoe, Ebach and Warton) Fellowships and three DECRAAs (Crean, Kasumovic and Schwanz).

A full membership list is given in Appendix A.

### Aims and Strategies

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1. *To further build and support excellence in research in Evolution and Ecology.*

In 2013, we welcomed two new members, Dr Lisa Schwanz and Dr Will Cornwell.

2. *Continue to grow the number of top-quality Higher Degree Research students via ongoing improvements to the Graduate Program in Evolution & Ecology and aggressive recruitment strategies.*

Centre postgraduate numbers were stable in 2013. There were 12 PhD and 3 Masters completions.

3. *Support the increase in external funding to Centre members, including development of explicit strategies to diversify funding.*

There was a slight increase in the NCGP other grant funding in 2013 but overall, grant funding was on par with 2012.

## 2013 Awards and Prizes

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- Professor Angela Moles won the Frank Fenner Prize for Life Scientist of the Year at the Prime Ministers Science Awards.
- Centre Director, Rob Brooks won the 2013 Australian Museum Eureka Prize for Promoting Understanding of Australian Science Research and Dr Mike Letnic won the prize for Environmental Research.
- A/Prof David Warton was recognised as the 'Supervisor of the Year' within the Faculty of Science at the University's Postdoctoral Academy Awards on 5 December, 2013
- A/Prof Alistair Poore received the Citation for Outstanding Contributions to Student Learning from the Federal Government's Office of Learning and Teaching
- The discovery of the Red Deer Cave people by A/Prof Darren Curnoe was named the top archaeological research finding in the world for 2011-2012 at the inaugural Shanghai Archaeological Forum in September 2013.
- Prof Emma Johnston was elected as Vice President of Science and Technology Australia in December 2013
- A/Prof Alistair Poore had a species named after him - *Paragrubia apoorei* - this is an amphipod crustacean from the seagrass beds of Western Australia and was one of 18 new species from this group described by Lauren Hughes and Rachael Peart from the Australian Museum.
- Dr Angela Crean competed in the Fresh Science 2013 National Final in July.
- PhD student Teagan Marzullo, was the winner of the Cutting-edge Discovery category in the Faculty of Science Postgraduate Research Competition
- PhD student Melanie Sun was the winner of the Science on the Job category in the 2013 UNSW Science and Engineering Photo Competition. Simone Birrer was runner up in the Science Education category and Rhiannon Dalrymple received a Special Mention in the Women in Science category.
- PhD student Suzanna Evans won the Sydney Aquarium Sea Life Conservation Fund/Australian Marine Sciences Association Student award in 2013
- PhD student Sichong Chen received second place for best student presentation at EcoTas13, the joint conference of the New Zealand Ecological Society and the Ecological Society of Australia

## **E&ERC Internal Awards 2013**

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*Outstanding Evolution and Ecology (Postgraduate) Researcher of the Year*  
Rhiannon Dalrymple

*Outstanding Evolution and Ecology Postgraduate Paper of the Year*  
Josh Griffiths

*Outstanding Evolution and Ecology PhD Thesis*  
Katelyn Edge

*Outstanding Presentation in the E&ERC Postgraduate Forum June 2013*  
Sichong Chen

*Outstanding Presentation in the E&ERC Postgraduate Forum November 2013*  
Suzanna Evans

*Outstanding Evolution (Undergraduate) Student of the Year*  
Su Oon and Lisa Sun

*Outstanding Ecology (Undergraduate) Student of the Year*  
Curtis Champion

*E&ERC Supervisor Excellence Award*  
Angela Moles and Katherine Dafforn

*E&ERC Citation Classic Award*  
(Paper with most citations in the year, Centre member or student as primary or corresponding author)

Will Cornwell

With 74 web of knowledge citations.

Cornwell, William K., et al. "Plant species traits are the predominant control on litter decomposition rates within biomes worldwide." *Ecology Letters* 11.10 (2008): 1065-1071

*E&ERC Impact Paper Award*  
(Paper in highest Impact Journal, Centre member or student as primary or corresponding author)

Michael Garratt Impact factor 9.737

Garratt M, Gaillard JM, Brooks RC, Lemaître JF. Diversification of the eutherian placenta is associated with changes in the pace of life. *Proc Natl Acad Sci U S A.* 2013 May 7;110(19):7760-5. doi: 10.1073/pnas.1305018110. Epub 2013 Apr 22

## Media Coverage

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Media monitoring shows that E&ERC members had an increased number of stories across all types of media in 2013. These stories are summarised in Appendix E.

## Sabbatical and Distinguished Visitors

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A/Prof Tracey Rogers hosted the Distinguished Visitors Program in September with Professors Felisa Smith (University of New Mexico) and Terrie Williams (University of California Santa Cruz). The program included the following workshops:

- **Career building workshop for women in Academia** (Women in Science component)
- **Networking** workshop (Component of PG Skills Transfer)

The distinguished visitors program was well received and the feedback extremely positive.

## Conferences and workshops

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The E&ERC hosts short conferences on areas of research strength. In these conferences, academics and postgrads from the E&ERC, and other Australian and global researchers present seminars and participate in discussion groups on current and future research directions in that research area.

A/Prof David Warton organised a two-day Eco-Stats symposium “**New Opportunities at the Interface between Ecology and Statistics**” that was held on campus on 11-12 July 2013.

In September 2013, A/Prof Tracey Rogers hosted “**Mammals response to change**” conference, this was part of the Distinguished Visitors Program. This conference brought together researchers and academics from Australia and the USA.

In November 2013, Dr Michael Kasumovic organised a 2 day workshop: “**Colour analysis**” this workshop covered the different techniques currently available for analysing colour data. A hyperspectral camera was available to see how well it works under different laboratory and field scenarios for different types of animals, plants and non-living organisms.

## E&ERC Seminar Series

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The E&ERC holds a series of seminars with presentations from distinguished overseas visitors, colleagues from other Australian institutions, and staff and recent doctoral graduates of the School. See Appendix G for full list.

## Publications, research projects, consultancies

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See Appendix D.

## **BEES and E&ERC Interactions**

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BEES provided the desk space for the E&ERC Administrator, including all communications needs, and O&HS structures. The E&ERC in turn provided BEES with administrative support, in particular, assisting in the organisation of bi-annual Postgraduate Research Forums and filling in for the PG Administrative Co-ordinator when on leave. Both BEES and the E&ERC work collectively to manage joint financial obligations.

## **Major Goals for 2014**

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The two long-term goals of the E&ERC are:

1. To be consistently recognised as being within the top three in Australia in Evolution and Ecology.
2. To be recognised as the best place outside of Europe and North America (and among the best world-wide) for postgraduate study in Evolution and Ecology.

In 2014, the E&ERC proposes to continue to run its core activities in order to achieve the Centre goals, to see an increase in the number of students in the graduate program and to see growth in both NCGP and non NCGP funding.

## Resources

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### Financial performance

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The Centre is no longer funded by a Strategic Priorities Fund award (SPF01, PS15212). The Centre is allocated an amount by the faculty via the School of BEES (OP001, PS15230) on the basis of research performance metrics.(in agreement with members' schools).

Financial performance is summarized in Table 2 and a full report is appended as Appendix F.

**Table 2. Financial performance of the E&ERC**

	2013	2012	2011
<b>Income</b>	\$125805	\$118,106	\$134,877
<b>Expenses</b>			
Payroll	\$56858	\$30,814	\$5149
Scholarships*	\$18000	\$29,521	
Equipment	\$415	\$10,852	\$1666
Materials and Maintenance	\$25024	\$26,313	\$125,104
Travel Expenses	\$25508	25,606	\$14,126
<b>Total expenses</b>	\$125805	\$123,106	\$146,045
<b>Closing Balance</b>	0	0	\$5000

\*Prior to 2012, Scholarship expenses were reported in the totals for Materials

### In-kind contributions

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This section is not relevant to the E&ERC.



## **Management**

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### **Details of significant managerial or personnel changes**

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There were no significant managerial or personnel changes in 2013.

### **Meetings of the centre's management board and advisory committee**

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In 2013 there was one meeting held on 19 June to table the 2012 Annual Report. See Appendix H for copy of Minutes.

The E&ERC has no advisory committee.

## **Teaching and research supervision**

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### **Graduate Program in Evolution & Ecology**

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The E&ERC offered 3 special courses in 2013 as part of the Graduate Program in Evolution & Ecology. The 3 workshops were presented by the recipients of the E&ERC Postgraduate Writing and Skills Transfer Award:

1. Marie Attard PhD graduate presented a workshop in Semester 1 2013

#### **Winning Presentations**

Enrolment: 3 x 3 hour sessions over 3 days

Topics: Layout of primary concepts, research questions and storyline, visual design and presenting the story, putting skills into practice.

2. Katelyn Edge PhD graduate presented a workshop in Semester 2 2013:

#### **Building professional networks to succeed in science**

Enrolment: 2 x 3 hour sessions over 2 days

Topics: Effective strategies for networking and establishing on line networks.

3. Anna Namyatova PhD Graduate also presented a workshop in Semester 2 2013:

#### **Tree thinking**

Enrolment: 2 x 3 hour sessions over 2 days

Topics: Principles and methods for building phylogenies and searching for existing phylogenies and interpreting relationships and characters

## Appendices

### APPENDIX A: Members of the Evolution & Ecology Research Centre in 2013 and their home Schools

	NAME	SCHOOL
Prof & APF	Rob Brooks (Director)	BEES
A/Prof	Tracey Rogers (Deputy Director, Research)	BEES
Senior Lecturer	Dr Terry Ord (Dep. Director, Graduate Program)	BEES
Prof	Gerry Cassis	BEES
Prof	Iain Suthers	BEES
Prof & ARF	Emma Johnston	BEES
A/Prof	David Warton	MATHS
Prof	William Sherwin	BEES
Prof	David Eldridge	BEES
A/Prof	Alistair Poore	BEES
A/Prof & FF	Darren Curnoe	BEES
Prof & QEII	Angela Moles	BEES
A/Prof & QEII	Dr Mark Tanaka	BABS
A/Prof & Future Fellow	Dr Russell Bonduriansky	BEES
Sen Lect. & Future Fellow	Dr Malte Ebach	BEES
Sen Lecturer	Dr Stephen Bonser	BEES
QEII Fellow	Dr Mark Brown	BABS
QEII Fellow	Dr Stephen Wroe (left in July 2013)	BEES
Lecturer	Dr Adriana Verges	BEES
Lect. & DECRA	Dr Michael Kasumovic	BEES
Res Associate	Dr Katherine Dafforn	BEES
Res Associate	Dr Graeme Clark	BEES
Res Associate	Dr Nikolai Tataranic (left in June 2013)	BEES
DECRA Fellow	Dr Angela Crean	BEES
Res Associate	Dr Michael Garratt	BEES
APD Fellow	Dr Jonci Wolff (left in December 2013)	BABS
Res Associate	Dr Barnaby Dixson	BEES
Sen Lect. & DECRA	Dr Lisa Schwanz	BEES
VC PDoc Fellow	Dr Mattias Hagman	BEES
Sen Lecturer	Dr Will Cornwell	BEES

## **APPENDIX B: Postgraduate Students**

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### **Completions in 2013**

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#### **PhD**

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Margo Adler  
Marie Attard  
Stefani Daryanto  
Katelyn Edge  
Chang Han  
Ratnawati Hazali  
Luke Hedge  
Thomas Mullaney  
Anna Namyatova  
Alexander Pursche  
Carol Sukhn  
Samantha Travers

#### **MPhil**

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Elizabeth Cassidy  
Mailie Gall  
Courtney Morgans

## Students Enrolled in 2013

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### PhD

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1. Acasuso, C. Title Pending. Supervisor T. Rogers
2. Adams, T. Can humans and elephants co-exist? Supervisor K. Leggett
3. Allen, L. Intrasexual Competition in Women. Supervisor R. Brooks.
4. Bain, K. Title Pending. Supervisor A. Poore
5. Balcazar-Cabrera, N. Title Pending. Supervisor T. Rogers.
6. Beaudoin, T. The ecology, range and evolution of macaques (Cercopithecidae: *Macaca*) and what we can learn about our own evolution. Supervisors D. Curnoe and G. Cassis
7. Birrer, S. Impact of stormwater inputs on sediment microbial community structure and function. Supervisors: E. Johnston and K. Dafforn.
8. Boel, C. Using geometric morphometrics and non-metric variants to investigate hybrid morphology in southeast Asian primates, and the implications of this for identifying possible hybrids in the human fossil record. Supervisor D. Curnoe.
9. Bolton, D. Indirect Effects of Marine Protected Areas. Supervisor E. Johnston.
10. Bracewell, S. Species traits and community dynamics across a latitudinal gradient. Supervisors: E. Johnston and G. Clark.
11. Brandenburger, C. To what extent is evolution in introduced plant species generating unique biological entities? A study using two Australian weeds. Supervisor A. Moles.
12. Brodie, S. Climate driven changes in the East Australia Current and their influence on the ecology and distribution of pelagic fish. Supervisor I. Suthers
13. Carlyon, K. Title Pending. Supervisor T. Rogers. (*Submitted in 2013*)
14. Chan, J. Genetic monitoring of stocked eastern king prawns. Supervisors: M. Taylor, B. Sherwin
15. Chen, S. Seed size and seed dispersal. Supervisor A. Moles.
16. Cheng, M. Title Pending. Supervisor G. Cassis
17. Constantinou, N. The spatial distribution of leopard seals in Antarctic waters. Supervisor T. Rogers.
18. Dalrymple, R. Is life in the tropics more colourful? A cross-taxa test for a latitudinal gradient in colour. Supervisor A. Moles.
19. Daniel, C. Population genetics of bottlenose dolphins (*Tursiops* sp.). Supervisor W. Sherwin.
20. Edwards, N. Diving ecology of Leopard seals. Supervisor T. Rogers.
21. Elias, M. Systematics of tree bugs. Supervisor G. Cassis.
22. Fazlioglu, F. Comparison of Ecological Specialist Plants by Means of Phenotypic Plasticity and Reproduction Strategies along an Altitudinal Gradient. Supervisor S. Bonser.
23. Flores-Moreno, H. Ecological mechanisms and evolutionary patterns in invasive species. Supervisor A. Moles (*Submitted in 2013*)
24. Gannon, R. Acoustic tagging and trading of estuarine predators. Supervisor M. Taylor
25. Gibson, A. Physiological trade-offs of life-history traits. Supervisor R. Brooks.
26. Glasier, J. Grazing effects on below and above ground ant faunas, and ant trophic levels. Supervisor D. Eldridge
27. Gouda-Vossos, A. Title Pending. Supervisor R. Brooks.
28. Griffiths, J. A test of the abandon ship hypothesis for the advantage of sex in clonal plants Supervisor S. Bonser.
29. Guerrero, A. Feeding ecology of leopard seals by way of fatty acid signature analysis. Supervisor T. Rogers.
30. Harris, B. Temperate krill and their role in pelagic fisheries. Supervisor I. Suthers.
31. Henschke, N. Fecundity, growth and population structure: Processes influencing salp swarms. Supervisors: I. Suthers and J. Everett.
32. Karras, J. Title Pending. Supervisor G. Cassis.

33. Keller, K. The trophic ecosystem of a purpose-built, offshore artificial reef: do coastal currents supply sufficient nutrients for the production of fish? Supervisor I. Suthers.
34. Klomp, D. The role of communication in the evolution and speciation of Malaysian gliding lizards (Genus *Draco*) Supervisor T. Ord.
35. Lavender, J. Latitudinal diversity gradients. Supervisor E. Johnston.
36. Lawes, J. Ecotoxicology. Supervisors: E. Johnston and G. Clark.
37. Manlik, O. Demography & Conservation Genetics of Dolphins. Supervisor W. Sherwin.
38. Marzullo, T. Movements and estuary fidelity of stingrays. Supervisor I. Suthers
39. McQualter, K. Title Pending. Supervisor K. Leggett
40. Meredith, F. Testing assumptions about plant defence and herbivory in island versus mainland habitats. Supervisor A. Moles
41. Namazi, A. Interactions of *Acacia tortilis* with their understory plants in arid environment. Supervisor S. Bonser.
42. Pease, C. Impacts of multiple stressors on marine herbivores. How much stress is too much? Supervisors: E. Johnston and A. Poore (*Submitted in 2013*)
43. Radnan, G. Title Pending. Supervisor D. Eldridge.
44. Rivero, N. Anthropogenic impacts in estuarine systems. Supervisors: E. Johnston, K. Dafforn, M. Mayer-Pinto
45. Rogers, N. Evolutionary psychology & archaeology. Supervisor D. Curnoe
46. Rutherford, S. Title Pending. Supervisor S. Bonser.
47. Setio, C. A Scientific Approach to Stocking Prawns. Supervisor I. Suthers
48. Sim, V. Potential Influences of Anthropogenic Boating Structures on Estuarine Health. Supervisors: E. Johnston and K. Dafforn
49. Stocks J. Profiling the biology and fishery of rock blackfish in New South Wales. Supervisors: M. Taylor and I. Suthers
50. Stone, O. Title Pending. Supervisors: D. Curnoe and S. Laffan (*Submitted in 2013*)
51. Sun, M. Developing ecogenomic signatures for rapid estuarine sediment health assessment: Linking benthic community shifts to the effects of anthropogenic contaminants. Supervisors E. Johnston and K. Dafforn
52. Tucker, M. Macroecological Patterns in Mammals: Body size, space use and diet. Supervisor T. Rogers
53. Van Der Meulen, D. Environmentally mediated spawning migrations of an estuarine dependent sillaginid. Supervisors: M. Taylor and I. Suthers.
54. Vanderlaan, T. Carboniferous trilobite systematic and biogeography. Supervisor M. Ebach. (*Submitted in 2013*)
55. Vogel, S. Population genetics, demography and conservation of Little Penguins (*Eudyptula minor*). Supervisors: W. Sherwin and J. Sinclair.
56. Wan, J. Enemy release at the range edges of invasive species. Supervisor S. Bonser.

## MSc

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1. Graham, S. Thermal tolerance of marine invertebrates in a climate change hotspot. Supervisor A. Poore (*Submitted in 2013*)
2. Macartney, E. Title Pending. Supervisors R. Bonduriansky and A. Crean
3. Reeds, K. Sydney Offshore Artificial Reef – Benthic Gradient Study. Supervisors E. Johnston and I. Suthers
4. Ushiana, S. Title Pending. Supervisors: E. Johnston and I. Suthers (*Submitted in 2013*)
5. Young, C. Title Pending. Supervisor I. Suthers.

## MPhil

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1. Kinsella, W. Supervisor S. Bonser.
2. Platt, E. Title Pending. Supervisor T. Ord.

## APPENDIX C: Grants won in 2013

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Prof Emma Johnston

**Australian Research Council/Linkage Project**

*Testing the waters: Impacts of contaminants on ecosystem structure and function in urban waterways*

2013-2016 - \$668,000

Prof Angela Moles

**Australian Research Council/Discovery**

*Latitudinal gradients and beyond: understanding the drivers of global patterns in plant ecology*

2014-2016 - \$323,000

Prof Gerry Cassis

**AusAID (Australian Agency for International Development) / Public Sector Linkages Program**

*Biodiversity capacity building in Papua New Guinea and sustainable development of its primary industries*

2013-2016 - \$742,000

Prof Gerry Cassis

**Hermon Slade Foundation / Research Grant**

*Plant hubs, plantbugs and lacebugs: coevolution of emu bush and sap-sucking insects*

2013-2016 - \$81,000

Prof David Eldridge

**Hermon Slade Foundation / Research Grant**

*Does overgrazing reduce the ecosystem service values provided by shrublands in semi-arid Australia?*

2013-2016 - \$66,000

Prof Gerry Cassis

**Department of Sustainability, Environment, Water, Population and Communities/Australian Biological Resources Study/ Bush Blitz Contracts**

*Short Form Services Agreement for Quantifying Bush Blitz: Heteroptera*

2013-2014 - \$55,000

Prof Gerry Cassis

**Department of Sustainability, Environment, Water, Population and Communities / Australian Biological Resources Study/ National Taxonomy Research Grant**

*Systematics and coevolution of grass-inhabiting lygaeoid true bugs (Insecta: Heteroptera) and evolution of host affiliated traits – Top up scholarship for Jacqueline Karras*

2013-2015- \$30,000

Prof Gerry Cassis

**Department of Sustainability, Environment, Water, Population and Communities / Bush Blitz Tactical Taxonomy Contracts**

*A new family and description of new species of Meschia from Northern Australia*

2013 \$10,000

Prof Gerry Cassis  
**Department of Sustainability, Environment, Water, Population and Communities /  
Contract Research**  
*Bush Blitz of Heteroptera at the National Reserve System property of Henbury Northern Territory*  
2013 \$3,500

Dr Matt Taylor  
**Sea World Research & Rescue Foundation / Research Funding**  
*Stingray movements; a step toward revealing the environmental and physiological drivers behind  
their behaviour*  
2013 \$9,000

Dr Adriana Verges  
**Sea World Research & Rescue Foundation / Research Funding**  
*Surgeonfish on the move and the tropicalisation of temperate marine ecosystems*  
2013 \$13,000

Dr Adriana Verges  
**Australian Academy of Science / Scientific Visits to Japan**  
*The tropicalisation of temperate algal forests in Japan and Australia: a trans-hemispheric  
comparison*  
2014 \$5,200

A/Prof David Warton  
**Australian Academy of Science/German-Australian Mobility Call for Collaboration in  
Science and Technology in Biodiversity and Preventative Health in 2013-2014**  
*Model-based approaches to the study of biodiversity patterns*  
2014 \$11,000

Prof Gerry Cassis  
**University of New South Wales/Major Research Equipment and Infrastructure Initiative  
(MREII)**  
*Macroscopic and compound microscopy suite, inclusive of integrated digital photographic  
equipment, to support research in 3D and 2D geometric morphometrics, phenomics, phylogenetics  
and evolutionary biology of vertebrates and invertebrates.*  
2014 \$110,000

Dr Michael Kasumovic  
**University of New South Wales/Major Research Equipment and Infrastructure Initiative  
(MREII)**  
*Portable Hyperspectral Camera*  
2014 \$37,100

Dr Adriana Verges  
**E&ERC New Funding Initiative Grant**  
*Tropicalisation: an emerging threat to temperate biodiversity*  
2013 - \$10,000

Dr Graeme Clark  
**E&ERC New Funding Initiative Grant**  
*Engineering artificial habitats to enhance ecosystem services and mitigate impacts*  
2013 - \$10,000

## APPENDIX D: Publications in 2013

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### Journal Articles

Adler, MI, & Bonduriansky, R 2013, 'Paternal Effects on Offspring Fitness Reflect Father's Social Environment', *Evolutionary Biology*, 40, pp. 288 – 292.

Adler, MI, Cassidy, EJJ, Fricke, C, & Bonduriansky, R 2013, 'The lifespan-reproduction trade-off under dietary restriction is sex-specific and context-dependent', *Experimental Gerontology*, 48, pp. 539 – 548.

Aloise King, ED, Brooks, RC, & Banks, PB 2013, 'Sexual conflict in mammals: Consequences for mating systems and life history', *Mammal Review*, 43, 47 – 58.

Aloise King, ED, Garratt, M, & Brooks, R 2013, 'Manipulating reproductive effort leads to changes in female reproductive scheduling but not oxidative stress', *Ecology and Evolution*, 3, pp. 4161 – 4171.

Bain, KF, Vergés, A, & Poore, AGB 2013, 'Using near infrared reflectance spectroscopy (NIRS) to quantify tissue composition in the seagrass *Posidonia australis*', *Aquatic Botany*, 111, pp. 66- 70.

Baker, CS, Hutt, A, Thompson, K, Dalebout, ML, Robins, J, Brownell, RL, & Stone, GS 2013, 'Species identity and human consumption of beaked whales in the Gilbert Islands, Republic of Kiribati', *Animal Conservation*, 16, pp. 641 – 647.

Bartle, K, Moles, AT, & Bonser, SP 2013, 'No evidence for rapid evolution of seed dispersal ability in range edge populations of the invasive species *Senecio madagascariensis*', *Austral Ecology*, 38, pp. 915 – 920.

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## **APPENDIX E: Media Coverage**

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### **Violent-videogames aren't the problem it's in our genes**

Dr Michael Kasumovic  
*The Conversation* 8 February 2013

### **The saga of the hobbit highlights a science in crisis**

A/Prof Darren Curnoe  
*The Conversation* 11 February 2013

### **Some big news about maxent**

A/Prof David Warton  
*Methods in Ecology & Evolution website* 20 February 2013

### **The release of prawns goes swimmingly**

Chris Setio PhD candidate  
*The Age* 26 February 2013

### **Seafood sustainability not a sustainable reality**

Dr James Smith  
*The Conversation* 15 March 2013

### **Fish larvae study stirs marine park debate**

A/Professor Emma Johnston  
*ABC Science* 20 March 2013

### **Survival in the city**

A/Professors Emma Johnston and Angela Moles' research was featured in this article  
*The Sydney Morning Herald* 27 April 2013

### **Short Plants Are Evolutionary Sprinters**

A/Professor Angela Moles  
*ScienceShot* 21 May 2013

### **Our National parks must be more than playgrounds or paddocks**

A/Prof Emma Johnston was a co-author  
*The Conversation* 24 May 2013

### **Hairy faces promote melanoma awareness**

Dr Barnaby Dixson  
*The Daily Telegraph* 25 May 2013

### **Are-you-racist? You-might-want-to-change-your-avatar**

Dr Michael Kasumovic  
*The Conversation* 4 June 2013

### **Climate change caused Australian megafauna extinction, not Aboriginal humans**

A/Prof Stephen Wroe  
*The Australian, WA Today and Medical Daily* 6 May 2013

**The evolution of lying**

Prof Rob Brooks

*The Conversation 16 May 2013*

**Explaining Schwarzenegger – men, biceps and the politics of getting what you want**

Prof Rob Brooks

*The Conversation 20 May 2013*

**The costs of bearing (many) children in contemporary Israel**

Prof Rob Brooks

*The Conversation 28 May 2013*

**Breadwinner moms: Progress towards equity or sign of the end of times?**

Prof Rob Brooks

*This View of Life 4 June 2013*

**Making national parks truly national**

A/Prof Emma Johnston

*The Conversation 14 June 2013*

**Menopause wars: can male preferences for young women explain ‘the change’?**

Prof Rob Brooks

*The Conversation 17 June 2013*

**Sex, food and pseudoscience**

Prof Rob Brooks

*The Conversation 19 June 2013*

**Seaweed quality could affect marine grazers**

A/Prof Alistair Poore

*ABC Science 24 June 2013*

**We’re carrying evolution’s excess baggage – so why can’t we let go?**

A/Prof Darren Curnoe

*The Conversation 26 June 2013*

**"The Chemistry of Attraction"**

Prof Rob Brooks and his SEX LAB team

*ABC Catalyst 25 July 2013.*

**Marine biodiversity conservation in Australia: Marine protected areas and politics**

Dr Alexandra Campbell

*AQ July 2013*

**Cunnilingus-assisted orgasm may not be such a big mystery**

Prof Rob Brooks

*The Conversation 5 July 2013*

**Don’t sleep with mean people**

Prof Rob Brooks

*The Conversation 18 July 2013*

**Our foraging ancestors weren't particularly war-like**

Prof Rob Brooks

*The Conversation 26 July 2013*

**The ifs and buts of eco-labelled seafood**

Dr James Smith

*The Conversation 2 August 2013*

**How do jumping spiders make a perfect landing? Watch and learn**

Dr Michael Kasumovic

*The Conversation 7 August 2013*

**Breastfeeding in Kilimanjaro conforms to evolutionary theory**

Prof Rob Brooks

*The Conversation 8 August 2013*

**Does it matter if atheists are smarter than believers?**

Prof Rob Brooks

*The Conversation 13 August 2013*

**Tahitian gender-bending bug avoids stabbing sex**

Dr Nikolai Tatarnic and Professor Gerry Cassis

*Nature 19 August 2013*

**Life thrives in sea squirt slow lane**

Dr Angela Crean

*Canberra Times 25 August 2013*

**Mate choice in the lab can teach us about real life and speed dating encounters**

Prof Rob Brooks

*The Conversation 28 August 2013*

**Snap harbour survey takes in the bare facts**

Dr Luke Hedge

*The Sydney Morning Herald 31 August 2013*

**Estuarine stressor interactions**

PhD candidate Jaz Lawes

*AMSA Bulletin August 2013*

**Blurred double standards**

Prof Rob Brooks

*The Conversation 4 September 2013*

**Female orgasm: mystery to men**

Prof Rob Brooks

*The Sydney Morning Herald 5 September 2013*

**The small business of research funding**

Prof Rob Brooks

*The Conversation 6 September 2013*

**Have you got the balls to be a good dad?**

Prof Rob Brooks

*The Conversation 10 September 2013*

**Religiosity about reproduction more than cooperation**

Prof Rob Brooks

*The Conversation 8 October 2013*

**Malcolm Gladwell and Goliath: when great strength becomes a weakness**

Prof Rob Brooks

*The Conversation 13 October 2013*

**Of heads and headlines: can a skull doom 14 human species**

A/Prof Darren Curnoe

*The Conversation 18 October 2013*

**2013 PM's Prize for Science: Angela Moles**

A/Prof Angela Moles

*The Sydney Morning Herald 30 October 2013*

**The tropics, tundra and travel bug turn ecology's ideas upside down**

A/Prof Angela Moles

*The Conversation 30 October 2013*

**Biologist finds most diverse chemical compounds in high latitude, not tropical, plants**

A/Prof Angela Moles

*ABC News24 31 October 2013*

**Am I a feminist? Simple ways to tell**

Prof Rob Brooks

*The Conversation 3 November 2013*

**Prize winner pleads for early career fellowships**

A/ Prof Angela Moles

*ABC The Science Show 9 November 2013*

**Coast Australia**

Prof Emma Johnston is a presenter on this series

*Foxtel December 2013*

**What speed sperm should a sea squirt squirt?**

Dr Angela Crean

*Australasian Science December 2013*

## APPENDIX F – Financial Reports

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### Statement of Financial Performance for the Year Ended 31 December 2013

	2013	2012
	\$	\$
<b>Funds</b>		
External Funds	0	0
UNSW - A Moles Career Adv.Fund		15000
BEES Contribution - Operating OP001	<u>125805</u>	<u>103106</u>
<b>Total Funds</b>	<u>125805</u>	<u>118106</u>
<b>Costs</b>		
Payroll	56858	30814
Equipment	415	10852
Scholarships*	18000	29521
Materials	25024	26313
Travel	<u>25508</u>	<u>25606</u>
<b>Total Costs</b>	<u>125805</u>	<u>123106</u>
<b>Operating result</b>	0	-5000
<b>Opening balance</b>	0	5000
<b>Closing balance</b>	<u>0</u>	<u>0</u>

#### Notes to the Statement of Financial Performance

\*Prior to 2012, Scholarship expenses were reported in the totals for Materials.

## APPENDIX G– E&ERC Seminars in 2013

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<b>Date</b>	<b>Title</b>	<b>Speaker</b>
08/03/13	Stress ecology and why everyone is doing it	A/Prof Emma Johnston E&ERC
22/03/13	Auditing human activities in the Ocean	Robert L Stephenson NSERC Canadian Fisheries Research Network
19/04/13	Global patterns in plant defence: are tropical plants nastier?	A/Prof Angela Moles E&ERC
03/05/13	The many colourful ways to stimulate a fly	Darrell Kemp Macquarie University
17/05/13	Spatial ecology of a 3D underwater world: incorporating three-dimensionality into marine research	Renata Ferrari Legorreta University of Sydney
31/05/13	The ecology and evolution of bark	Julieta Rosell Macquarie University
14/06/13	Quantative, evolutionary and comparative analyses of the role, function, and acts associated with uncommitted sexual relationships	Peter Karl Jonason University of Western Sydney
02/08/13	Light-driven tipping points in polar ecosystems	Dr Graeme Clark E&ERC
16/08/13	50 shades of green: plant sex on stress gradients	Dr Stephen Bonser E&ERC
26/08/13	Investigating tool-use behaviour in wild New Caledonian crows	Dr Christian Rutz University of St Andrews
13/09/13	Conflict and Cooperation in Fishes: Insights from Coral Reefs & Great Lakes	Dr Marian Wong UOW
18/09/13	The Truth about Cats and Dogs: Physiological tipping points as survival indicators for large mammalian predators	Prof. Terrie Williams UCSC
20/09/13	How big should a mammal be? The role of body mass in coping with varying environmental conditions	Prof. Felisa Smith UNM
27/09/13	A geographic mosaic of climate change impacts: which areas are most at risk?	Dr Will Cornwell E&ERC
18/10/13	Monitoring coral reef health from space	Dr Elizabeth Madin Macquarie University
01/11/13	Connectivity of Australian seaweeds and implications for conservation	Dr Melinda Coleman DPI, NSW Fisheries



## **APPENDIX H- Minutes of E&ERC Management Committee Meeting 19 June 2013**

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### **E&ERC Management Committee Meeting**

**Wednesday 19 June 2013 at 4.30 p.m.**

**Dean of Science Office, Level 2, Dalton Building.**

**Attendees:** Prof Merlin Crossley, A/Prof David Cohen, Prof Robert Brooks,

Vera Banschikoff

**Apologies:** Prof. Matthew England, Prof. Brett Neilan

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### **MINUTES**

1. Prof Rob Brooks tabled 2012 Annual Report.
2. Current financial position was presented.
3. Centre Review is scheduled for 2014.
4. Decision was made not to appoint new Committee members and to retain Prof Matthew England on committee. RB to communicate with Prof England.