



DST-NRF Centre Of Excellence

Birds as Keys to Biodiversity Conservation at the Percy FitzPatrick Institute

ANNUAL PROGRESS REPORT

Reporting Period

From: 1 January 2006

To: 31 December 2006

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Identification

Name of Director	: Morné A. du Plessis
Name of CoE	: DST-NRF Centre of Excellence at the Percy FitzPatrick Institute
Abbreviated CoE Name	: CoE at the Percy FitzPatrick Institute
Host institution	: University of Cape Town
Date completed	: 20 March 2007

EXECUTIVE SUMMARY

1. Financial Information (Funding of the CoE, excluding funding of the Percy FitzPatrick Institute as a whole)

Total NRF funding for 2006	: R 2,078,944*
Funding from Host institution in 2006	: R 380,000**
Funding from other sources for the CoE in 2006	: R 3,412***
Carry forward from 2005	R 2,197,299
Total funding	: R 4,659,655

*includes investment income

**includes R180,000 for post-doc top-ups not reported on in the audited financial statements

***does not include funding provided by collaborating institutions to CoE members at those institutions

2. Summary of progress against 5 Key Performance Areas

(i) Research (Maximum 5 lines)

A total of 47 peer-reviewed papers were published in SCI-rated journals in 2006, 24 in journals with a rating ≥ 1.5 , nine in journals with a rating ≥ 3.5 , and one in a journal with a rating ≥ 10 . With the new projects initiated in 2005 starting to yield high-quality publications, the Centre is well positioned for meeting long-term output targets.

(ii) Education and Training (Maximum 5 lines)

Twelve PhD, 32 MSc, nine BSc Honours students and one B Tech student registered at South African institutions (21% black and 57% women) were supported within the CoE during 2006. Fourteen new MSc students joined the CoE in 2006. One PhD and 14 MSc students (including four black students) graduated, with an average throughput rate of 1.8 years for the MSc students.

(iii) Information Brokerage (Maximum 5 lines)

Fifty-six semi-popular publications, a SABC TV programme, and a BBC radio programme broadcast research findings to the lay public. A revised impression of *Roberts* was printed and the related life-history database completed. CoE members attended 16 conferences and workshops, and hosted a series of 15 training workshops for the fishing industry.

(iv) Networking (Maximum 5 lines)

A broad range of close collaborative working relationships with scientific peers and a variety of conservation NGOs and governmental organisations exists both

nationally and internationally. The CoE was involved in at least 25 joint-venture student training initiatives. The CoE continues to build much-needed African capacity in the broad arena of biodiversity conservation.

(v) Service rendering (Maximum 5 lines)

The CoE has been active in advising conservation organizations, government departments, and industry on a variety of research projects. CoE members served on the editorial boards of ten journals, and reviewed at least 100 papers for peer-review journals.

3. What was the gender impact of your work? (Maximum 5 lines)

A strong policy on recruiting women ensured a 56% representation of women in the postgraduate student body for 2006. This meets the objective of maintaining an equal representation of men and women within the CoE.

4. Red Flags. Please indicate any major concerns you have for the future of your CoE (Maximum 10 lines)

The challenge of reducing the carry-forward is being addressed during the course of 2007 through conservative allocation of funding to projects for which students have already been found, and monthly reassessments of project funding needs and expenditure flows. The challenge of attracting a sufficient number of South African students from under-represented groups is being addressed through approaches that include a week-long Academy in Biodiversity Conservation, internship and bridging-year programmes for under-prepared students, and competitive bursaries to top-quality students. These initiatives will take time to produce results.

5. General Comments (Maximum 15 lines)

The Centre continues to demonstrate an increasing trend in the quality of its research publications, and is well positioned to meet the longer-term (2006-2008) research output targets of the 'Norming' stage. It has a smoothly functioning management system in place. The long-term research strategy of the CoE has been refined to accommodate the activities of the Percy FitzPatrick Institute as a whole, together with CoE collaborators. The involvement of team leaders at collaborating institutions has allowed the development of cross-disciplinary research projects, and promoted the large-scale collection and sharing of data and specimen samples. These synergies have resulted in at least 25 joint-venture student training initiatives.

PROGRESS REPORT

1. Scientific Research

Objective

The research strategy of the CoE has been aligned to a long-term goal of producing an increasing level of world-class research outputs, measured as the number of papers published in international peer-reviewed journals with relatively high SCI impact factor ratings. To meet this goal, the CoE has a target of publishing an average of ≥ 1 paper with an impact rating ≥ 10 and ≥ 5 papers with an impact rating ≥ 3.5 each year during the years 2006-2008.

Progress

A total of 47 papers (carrying the CoE address) were published in SCI-rated journals during 2006, 24 of which were published in journals with an impact factor rating ≥ 1.5 (see Appendix 1 for a full listing). Nine of these papers were published in journals with a rating ≥ 3.5 ; one of them in a journal with a rating ≥ 10 (Figure 1).

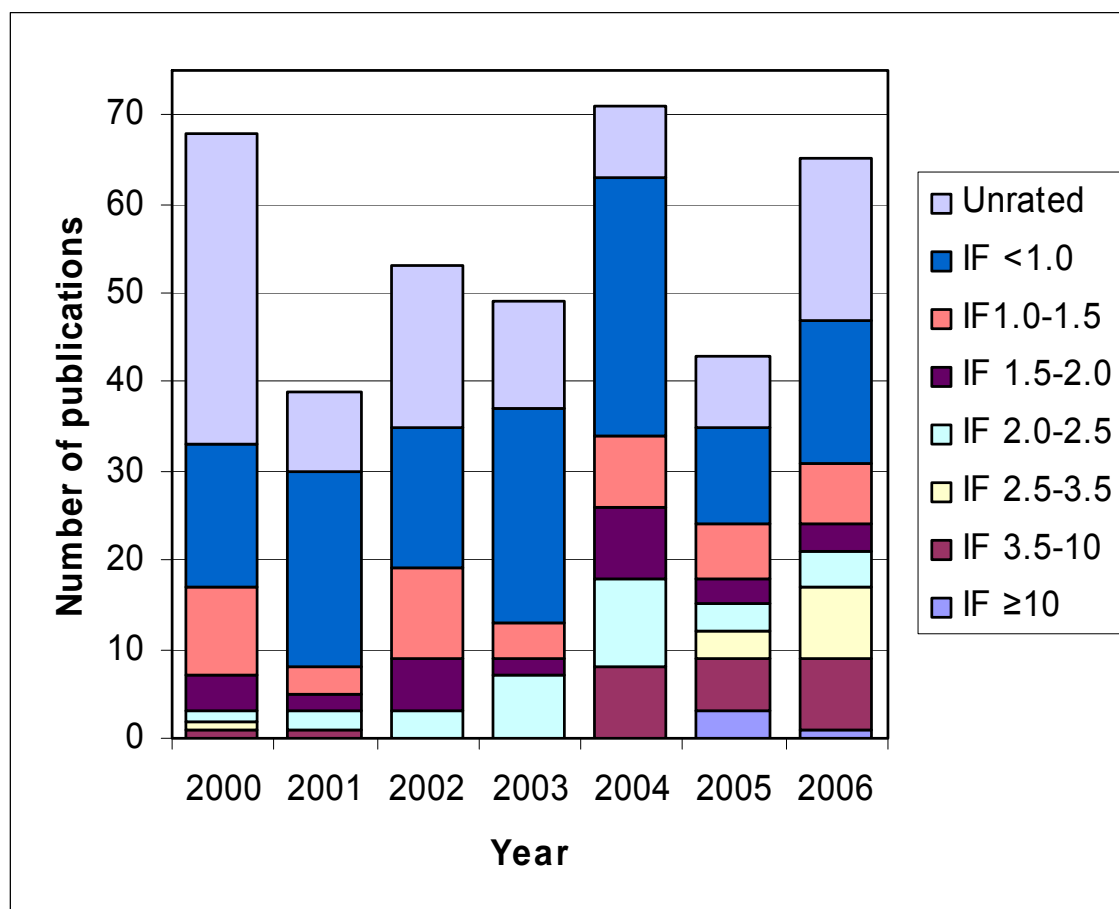


Figure 1: Summary of the SCI journal impact factor (IF) ratings of the scientific publications of the Percy FitzPatrick Institute over the years 2000 to 2006.

A breakdown of individual CoE member contributions to publication outputs is provided as Appendix 2. Research progress is discussed under the three main CoE research project themes:

1. **Characterizing biodiversity to infer process from pattern.** Research focussed on the genetic characterisation of biodiversity, with an expended budget of around R 770,000, produced two of the nine papers to be published in 2006 in journals with an impact factor ≥ 3.5 , including a major paper on the classification, biogeography and evolutionary relationships of the gamebirds of the world.
2. **Evolutionary ecology.** Research under this theme, with an expended budget of around R 650,000, generated four of the nine papers with an impact factor ≥ 3.5 in 2006, including one from each of three long-term field research projects. A new bilateral project on sexual conflict in birds with researchers from Hungary was initiated in 2006, and will piggy-back on one of these long-term projects. Dr David Grémillet, a visitor from CNRS (France) started a year-long sabbatical at the Centre in mid-2006, to synthesise and write-up the results of several years research on the foraging ecology of seabirds, including work done on local seabirds in collaboration with the Centre. A visiting researcher from the Max Plank Institute for Ornithology initiated a new research project with a CoE postdoc, examining hormonal control of plumage expression in queleas.
3. **Maintaining biodiversity.** Research under this theme, with an expended budget of around R 190,000, generated three of the nine papers with an impact factor ≥ 3.5 in 2006. The new Chair in Conservation Biology, Graeme Cumming joined the CoE in January 2006 and has initiated two new research programmes under this theme. One new project within the "Spatial parasitology and epidemiology" research programme, which was awarded an annual grant of US\$ 229,000 through the Wildlife Conservation Society and USAID, seeks to understand the relationships between environmental heterogeneity in space and time (at different scales), the community structure of water birds (focusing on ducks), and the pathogens and ectoparasites found in and on ducks. With a particular focus on avian influenza, this project will determine whether or not there are natural and/or anthropogenic barriers that limit the movements of birds and/or the exchange of different influenza strains across southern Africa.

2. Education and Training

Objective

The short-term objective, as outlined in the draft SLA3, is for the CoE to support (at least partially) an average of ≥ 20 students per annum over the period 2006-2009, and ≥ 2 postdoctoral associates at the end of 2009. A further target is for black students to comprise $\geq 30\%$ on average of students supported directly by the CoE over this period, with the long-term objective of producing over the next 5-10 years ≥ 3 black South Africans who can step into a career position at the interface between ornithology and conservation biology. A medium- to long-term objective is to continue to build a vibrant research environment that instils a rigorous hypothetico-deductive approach to problem solving among the postgraduate student body.

Progress

Twelve PhD, 32 MSc students, nine BSc Honours students and one B Tech student registered at South African institutions were supported directly or indirectly within the CoE during 2006. Eleven (21%) of these students were black, and 30 (57%) were women. Fourteen new MSc (all Conservation Biology) students joined the CoE in 2005. One PhD student and 14 MSc students graduated in 2006, with an average throughput rate of 1.9 years for the MSc students. Four of the MSc graduates were black students, from the following countries: South Africa (1); Namibia (1); Malawi (1); Cameroon (1). Nine postdoctoral associates worked with the Centre during 2006.

Two postgraduate student discussion fora were held on a weekly basis: (1) a Research Discussion Group that provides a forum for students and staff to discuss research approaches, problems, and new ideas; and (2) a Conservation Biology Journal Club that focuses on discussing broader conservation issues. Four students and postdocs benefited from CoE support to attend international conferences and workshops. Wayne Delpont, Lucille Hermann, Ulf Johannson, and Lizanne Roxburgh presented papers at the 21st International Ornithological Congress in Hamburg (Germany).

In an effort to boost the uptake of black students to both undergraduate studies in the biological sciences and postgraduate studies at the CoE, we held the first DST/NRF Academy in Biodiversity Conservation in mid-January. A report on the Academy is included as an appendix to the Annual Report of the Percy FitzPatrick Institute. This was a joint initiative between our CoE and the Centre for Invasion Biology, with supplementary funding from DST, and was a great success. We selected a total of 15 undergraduate students, including seven black

students. Three of these students, including one from Walter Sisulu University (Mr Bewana) joined our Centre in 2006, two studying towards a BSc Hons at UCT, and a third studying towards a BSc Hons at the University of Pretoria. A fourth student from UKZN (Mr Mlambo) registered for a MSc in Zoology at UCT, starting in 2007.

The progression of students into jobs or further postgraduate study after graduation is outlined in the student fate report in Appendix 3. Eighteen of the 24 graduates since 2004 had responded by the time of writing. Of these, 13 had found employment within eight months of graduation, with an average interval of 1.4 months between graduation and starting their first job, whereas four continued with further postgraduate studies. Six MSc graduates are currently studying towards a PhD degree. Most graduates are currently employed in their field of expertise in government agencies or departments (8) and non-governmental organisations (4).

3. Information Brokerage

Objective

Medium-long term objectives are to: (1) develop the basis for making a sustained and direct contribution to the semi-popular literature aimed at popularizing science in the fields of conservation biology in general, and ornithology in particular; (2) to provide expert views on relevant matters for newspaper and magazine articles; and (3) to contribute to books of a semi-technical nature. CoE team members are each expected to present their work at one or more international conferences during 2006. A further target of SLA3 is for the CoE to organise ≥ 2 local conferences and ≥ 1 international conference over the period 2006-2009.

Progress

A total of 56 semi-popular publications were produced during the review period, including a lengthy article on the activities of the Centre published in *Quest*, the journal of the Academy of Science of South Africa (see Appendix 1 for a complete listing). The second, revised impression of *Roberts Birds of Southern Africa*, 7th edition was printed in March. A life-history database for the birds of southern Africa, based on the *Roberts VII* text, was completed during 2006, and has already been used as a data source for several research projects. This database will help to highlight remaining gaps in our knowledge, and will be continuously updated as new information is published.

The Pied Babbler research project was featured on SABC TV in the "50/50" programme (January) and BBC Radio 4 in the "Science and Nature" programme (June). In addition, a high profile publication stemming from this project (Radford & Ridley 2006) received wide media coverage internationally, including the news websites of Science Daily, Scripps Howard News Service, Adfero News Service, Science and Technology News Site, The San Diego Union-Tribune, Innovations Report (Germany), and the Canadian Broadcasting Service (Canada). Research done by the Centre on the impacts of mice on seabird populations on Gough Island featured as a note in National Geographic.

CoE members attended eight international and eight local conferences and workshops, and hosted a series of 15 training workshops with the fishing industry in South Africa and Namibia (see Outputs listing below for details).

4. Networking

Objective

Medium- to long-term objectives are to: (1) establish the basis for a wide range of key collaborative associations with scientific peers and peer research groups, both locally and abroad; (2) establish the basis for partnerships with conservation organisations and NGOs; and (3) establish strong relationships with business organisations with either direct or indirect interests in the field of conservation biology.

Progress

The CoE was involved in at least 25 joint-venture student training initiatives and other networking interactions between institutions directly or loosely collaborating with the CoE. Five post-graduate students of UCT worked in the molecular laboratories of Paulette Bloomer (UP, 1 student) and Rauri Bowie (US, 4 students). These laboratories also performed analyses for a further four UCT-based ecological research projects. In turn, the ongoing collecting effort co-ordinated by UCT researchers has been invaluable in providing samples critical for research projects at the collaborating institutions. Three further students have made use of the laboratories of CoE collaborators Colleen O'Ryan (Molecular Biology, UCT) and Terry Hedderson (Botany, UCT). Eight Conservation Biology MSc students benefitted from supervisors or co-supervisors loosely affiliated with the CoE. Nine students registered at institutions outside of the CoE framework were co-supervised by CoE members.

CoE project leader Dr Rauri Bowie left the University of Stellenbosch to take up a prestigious position at the University of California, Berkley at the end

of October 2006. Despite leaving the CoE, he will remain integrally involved in the co-supervision and running-cost co-funding of two post-doctoral fellows and two PhD students registered at UCT who will be using his molecular laboratory facilities at UC Berkely for their research.

A wide range of close collaborative working relationships with scientific peers now exist both nationally and internationally (see list of collaborators below). Phil Hockey visited the AP Leventis Ornithological Research Institute in Jos, Nigeria, to develop a bilateral link with this institute. This has resulted in the recruitment of an externally-funded Nigerian PhD student for 2007. A broad group of local and international collaborators has been influential in advancing the genetic characterisation of biodiversity research theme. Similarly, several international collaborators have been active in the seabird and island conservation themes. Seven international students from six different universities were involved in research projects at CoE study sites in South Africa.

The CoE has continued to build much-needed African capacity in the broad area of biodiversity conservation, with the graduation of three African students from the 2005/2006 MSc programme in Conservation Biology, and the enrolment of a further three African students to the 2006/7 programme.

5. Service rendering

Objective

A medium- to long-term objective is to establish formal contact with a range of conservation agencies and other relevant government bodies, such as Dept Environmental Affairs & Tourism, Dept Agriculture, Dept Water Affairs & Forestry, to ensure the expertise of the CoE can be used to address their particular research and information needs. CoE members will continue to render their services to the broader scientific community and the general public.

Progress

Links have now been established with a wide range of conservation agencies, NGO's, government departments, and industry players. These include Dept Environmental Affairs & Tourism, Dept Water Affairs & Forestry, Dept Agriculture, South African National Biodiversity Institute (SANBI), SANParks, WWF South Africa, IUCN, Conservation International, Fauna & Flora International, RSPB, BirdLife South Africa, Cape Nature, Endangered Wildlife Trust, Namibian Ministry of the Environment, Wildlife Conservation Society, South African Deep Sea Trawling Industry Association, and I&J. The following illustrate the types of advisory activities that CoE members were involved in.

BirdLife and WWF Responsible Fisheries Programme:- PhD student Samantha Petersen manages this programme, assessing the impacts of a suite of long-line and trawl fisheries on seabirds, turtles and sharks, developing and testing mitigation measures to reduce bycatch, and facilitating the implementation of these mitigation measures. Her team continued to be very involved in developing educational materials and managing a series of highly successful education and training workshops for law-enforcement officers, skippers and other interested parties in the fishing industry. A significant breakthrough in 2006 was the extension of this programme to Namibia.

Marine litter and its influence on seabirds:- Peter Ryan compiled a report on surveys of marine litter on South African beaches, which was presented at a meeting in Spain by the Director of the Plastics Federation of South Africa. He has also been invited to write a country report for the United Nations Environment Programme (UNEP) to review the amounts, sources and impacts of marine litter, as well as the legal and policy frameworks designed to address the problem.

Island conservation:- Peter Ryan, PhD student Ross Wanless and a team of international collaborators have been studying the ecology of House Mice on Gough Island, and examining the feasibility of dropping large quantities of poison bait by helicopter to eradicate the mice, which are endangering seabird populations by preying on their chicks. They have also been active in monitoring efforts to eradicate invasive plants from Gough and Tristan da Cunha islands, and producing a guide (funded by the UK Overseas Territory Environment Programme and the Royal Society for the Protection of Birds) to the fauna and flora of the islands to strengthen support for biodiversity conservation there.

Economic value of the Okavango Delta:- Jane Turpie conducted a valuation study that found that the Okavango Delta generates an estimated P 1.03 billion (2.1% of GNP) for the economy of Botswana. Households in and around the delta earn P 225 million/year from natural resource use, sales, salaries and wages in the tourism industry, and rents and royalties in Community Based Natural Resource Management arrangements. Natural resources were found to provide subsistence value to poorer households, serving as an important safety-net against environmental variability and socio-economic shocks. Tourism, on the other hand, generates a reliable cash income that most households aspire to, and also makes a substantial contribution to Botswana's GNP.

The value of marine protected areas (MPAs):- Jane Turpie led the 2006 Conservation Biology MSc class in a project that established the costs of maintaining 'no-take' MPAs along the Garden Route coast, the opportunity costs in terms of recreational and commercial fishing, the benefits to surrounding fisheries of the 'no-take' fish nurseries, and the recreational value of these areas.

The study concluded that the general benefits of MPA protection outweighed the costs.

CoE members serve on the editorial boards of ten scientific journals, including *Biological Conservation*, *Diversity and Distributions*, *Journal of Applied Ecology*, *Systematic Biology*, *Ibis*, *Bird Conservation International*, *Journal of Arid Environments*, *Ostrich*, *African Journal of Marine Science*, and *Southern African Journal of Wildlife Research*. Richard Dean is the Editor of *Ostrich*, the journal of African ornithology. CoE members also reviewed more than 100 papers for peer-reviewed international and local journals, and at least 10 grant proposals during 2006.

Morné du Plessis serves on the International Ornithological Congress Committee, the Advisory Board to the Institute for Plant Conservation, the Council of BirdLife South Africa, the Advisory Committee of the Mammal Research Institute, and the Steering Committee of SAFRING. He is also a Trustee to WWF-SA and Chair of its Conservation Committee. Phil Hockey serves on the Seychelles Island Foundation Board of Trustees, the BirdLife South Africa Rarities Committee, and is a member of the Bird Taxon Advisory Group to the Pan-African Association of Zoological Gardens. Tim Crowe serves on the International Ornithological Congress Committee, the Steering Committee of the South African Biosystematics Initiative, and the board of the South African Biodiversity Information Facility. Paulette Bloomer is Vice-president of the Southern African Society for Systematic Biology, and a member on the IUCN Specialist Group on Afrotheria, and the Yellowfish Working Group Scientific Panel. Peter Ryan is a member of the IMAF Working Group of CCAMLR, and the Tristan Biodiversity Advisory Group. Rauri Bowie heads the African Working Group and serves on the Global Steering Committee for the All Bird Barcoding Initiative. Jane Turpie serves on the Steering Committee of several Water Research Commission projects. Sue Milton serves on scientific review panels for the NRF and the Succulent Karoo Ecosystem Programme. Penn Lloyd serves on the Steering Committee of SAFRING.

6. Gender and equity impacts of research

Objective

A medium- to long-term objective is to systematically ensure that gender issues are considered in all aspects of the CoE's work, with the goal of maintaining an equal representation of men and women within the CoE in the long term.

Progress

The CoE has a firm recruitment policy in place to attract female post-graduates to ensure gender parity in the CoE student body. Consequently, 56% of postgraduate students supported by the CoE in 2006 were women. Furthermore, five of the nine (56%) postdoctoral fellows working with the CoE during 2005 were women. The staff profile of the CoE is much more difficult to adjust due to the permanent nature of appointments.

In response to research by CoE members showing that trawl warps kill an estimated 10,000 seabirds annually, Marine and Coastal Management implemented measures requiring trawlers to deploy bird-scaring or *tori* lines over each warp from July 2006. Designed by Barry Watkins, a member of the BirdLife and WWF Responsible Fisheries Programme, a partnership was set up with the Kommetjie Environmental Action Group whereby the tori lines were manufactured by handicapped people from the disadvantaged Ocean View community.

HUMAN RESOURCES

The following people worked within the CoE during the reporting period (or part thereof).

1. Core Team Members

Title	Surname	Citizenship	Institution	Gender	Race	% time spent working in CoE
Prof.	Bloomer	South Africa	UP	F	W	10
Dr	Bowie	South Africa	Stellenbosch	M	W	30
Prof.	Cumming	Zimbabwe	UCT	M	W	100
Prof.	Crowe	South Africa	UCT	M	W	100
Dr	Dean	South Africa	UCT	M	W	3
Prof.	Du Plessis	South Africa	UCT	M	W	100
Prof.	Hockey	South Africa	UCT	M	W	100
Dr	Lloyd	South Africa	UCT	M	W	100
Dr	McKechnie	South Africa	Wits	M	W	20
Ms	Mandiwana	South Africa	UCT	F	B	25
Prof.	Milton	South Africa	UCT	F	W	3
Dr	O'Ryan	South Africa	UCT	F	B	5
Prof.	Ryan	South Africa	UCT	M	W	100
Dr	Turpie	South Africa	UCT	F	W	10

2. Research Associates

Title	Surname	Citizenship	Institution	Gender	Race	% time spent working in CoE
Dr	Barnard	UK	UCT	F	W	3
Dr	Jenkins	South Africa	UCT	M	W	30
Dr	Kemp	South Africa	UCT	M	W	1
Dr	Milewski	Australia	UCT	M	W	10
Dr	Knight	Australia	NMMU	M	W	10
Dr	Simmons	UK	UCT	M	W	60

3. Post Docs

Title	Surname	Citizenship	Institution	Gender	Race	% time spent working in CoE	CoE funding support level		
							Bursary	Running	Indirect
Dr	Covas	Portugal	Edinburgh Univ	F	W	10	No	Yes	Yes
Dr	Eising	Netherlands	UCT	F	W	100	Yes	Yes	Yes
Dr	Ridley	New Zealand	UCT	F	W	100	Yes	Yes	Yes
Dr	Roxburgh	South Africa	UCT	F	W	100	No	No	Yes
Dr	Spottiswoode	South Africa	Cambridge	F	W	10	No	Yes	Yes
Dr	Delpport	South Africa	U Pretoria	M	W	100	Yes	Yes	Yes
Dr	Johannson	Sweden	U Stellenbosch	M	W	100	Yes	Yes	Yes
Dr	Radford	UK	Cambridge	M	W	10	No	No	Yes
Dr	Taylor	UK	UCT	M	W	100	No	Yes	Yes

4. Students

Title	Surname	Citizen-ship	Institution	Gender	Race	Degree	1 st year	Throughput (years)	Status	CoE funding support level		
										Bursary	Running	Indirect
Ms	Mandiwana	SA	UCT	F	B	PhD	2004	5*	Incomplete	No	Yes	Yes
Ms	Nangammbi	SA	UKZN	F	B	PhD			Incomplete	No	No	Yes
Ms	De Ponte	Portugal	UCT	F	W	PhD	2003		Incomplete	No	No	Yes
Ms	Golabek	UK	Bristol, UK	F	W	PhD	2006		Incomplete	No	No	Yes
Ms	Hermann	SA	UP	F	W	PhD	2004		Incomplete	No	Yes	Yes
Ms	Nelson	USA	UCT	F	W	PhD	2005		Incomplete	Yes	Yes	Yes
Ms	Petersen	SA	UCT	F	W	PhD	2004		Incomplete	No	Yes	Yes
Ms	Raihani	UK	Cambridge, UK	F	W	PhD	2004		Incomplete	No	No	Yes
Ms	Seymour	SA	UCT	F	W	PhD	1999		Graduated	No	No	Yes
Ms	Techow	SA	UCT	F	W	PhD	2002		Incomplete	No	Yes	Yes
Mr	Barnes	SA	UCT	M	W	PhD	1998		Incomplete	No	No	Yes
Mr	Cohen	SA	UCT	M	W	PhD	1999		Incomplete	No	No	Yes
Mr	Loewenthal	SA	UCT	M	W	PhD	1998		Incomplete	Yes	No	Yes

Mr	Wanless	SA	UCT	M	W	PhD	Jul 2004		Incomplete	No	No	Yes
Ms	Daniels	SA	UCT	F	B	MSc	2006		Incomplete	No	No	Yes
Ms	Rao	Canada	U Newfoundland	F	B	MSc			Graduated	No	Yes	Yes
Ms	Seoraj	SA	UKZN	F	B	MSc	2002		Incomplete	No	No	Yes
Mr	Boundja	Rep Congo	UCT	M	B	MSc	2006		Incomplete	No	No	Yes
Mr	Dundee	Namibia	UCT - AMS	M	B	MSc	2004	3	Graduated	No	No	Yes
Mr	Kaliba	Malawi	UCT	M	B	MSc	2005	1.5	Graduated	No	Yes	Yes
Mr	Maswime	SA	UCT	M	B	MSc	2005	1.5	Graduated	Yes	Yes	Yes
Mr	Musangu	Kenya	UCT	M	B	MSc	2006		Incomplete	No	Yes	Yes
Mr	Raharinjanahary	Madagascar	UCT	M	B	MSc	2006		Incomplete	No	No	Yes
Mr	Suinyuy	Cameroon	UCT	M	B	MSc	2005	1.5	Graduated	No	No	Yes
Ms	Baudains	SA	UCT	F	W	MSc	2005	1.5	Graduated	Yes	Yes	Yes
Ms	Fox	SA	UCT	F	W	MSc	2005	1.5	Graduated	Yes	No	Yes
Ms	Gordon	SA	UCT	F	W	MSc	2006		Incomplete	No	No	Yes
Ms	Hampton	SA	UCT - ADU	F	W	MSc	2005		Incomplete	No	No	Yes
Ms	Hill	SA	UCT	F	W	MSc	2006		Incomplete	No	No	Yes
Ms	Jenkins	New Zealand	UCT	F	W	MSc	2006		Incomplete	No	Yes	Yes
Ms	Lauret-Stepler	Reunion	UCT	F	W	MSc	2005	1.5	Graduated	No	No	Yes
Ms	MacGregor	SA	UCT	F	W	MSc	2006		Incomplete	No	Yes	Yes
Ms	McDonell	Canada	UCT	F	W	MSc	2005	1.5	Graduated	No	No	Yes
Ms	Nupen	SA	UCT	F	W	MSc	2006		Incomplete	No	Yes	Yes
Ms	Parker	SA	UCT	F	W	MSc	2003	4	Graduated	No	No	Yes
Ms	Pichegru	France	U Louis Pasteur	F	W	MSc			Incomplete	No	No	Yes
Ms	Schultz	Australia	UCT	F	W	MSc	2006		Incomplete	No	Yes	Yes
Ms	Shine	Ireland	UCT	F	W	MSc	2005	1.5	Graduated	No	No	Yes
Ms	Stephen	SA	UCT	F	W	MSc	2005	1.5	Graduated	Yes	No	Yes
Ms	Thomas	UK	UCT	F	W	MSc	2006		Incomplete	No	Yes	Yes
Ms	Vickers	Canada	UCT	F	W	MSc	2005	1.5	Graduated	No	No	Yes
Mr	Biggs	SA	UCT	M	W	MSc	2004	3	Graduated	Yes	No	Yes
Mr	Bird	SA	UCT	M	W	MSc	2006		Incomplete	No	No	Yes
Mr	Burnside	UK	UCT	M	W	MSc	2006		Incomplete	No	No	Yes

Mr	Oatley	SA	UCT	M	W	MSc	2005		Incomplete	No	Yes	Yes
Mr	Scovronick	USA	UCT	M	W	MSc	2005	1.5	Graduated	No	No	Yes
Mr	Shelton	SA	UCT	M	W	MSc	2006		Incomplete	No	No	Yes
Mr	Vincent	SA	UCT	M	W	MSc	2005		Incomplete	Yes	Yes	Yes
Mr	Bewana	SA	UCT	M	B	BSc Hons	2006		Incomplete	Yes	Yes	Yes
Ms	Braae	SA	UCT	F	W	BSc Hons	2006	1	Graduated	No	Yes	Yes
Ms	Hoffman	SA	UCT	F	W	BSc Hons	2006	1	Graduated	No	No	Yes
Ms	Lyons	SA	UCT	F	W	BSc Hons	2006	1	Graduated	Yes	Yes	Yes
Ms	Okes	SA	UCT	F	W	BSc Hons	2006	1	Graduated	Yes	Yes	Yes
Ms	Swanepoel	SA	UCT	F	W	BSc Hons	2006	1	Graduated	Yes	Yes	Yes
Mr	Ashdown	SA	Wits	M	W	BSc Hons	2006	1	Graduated	Yes	Yes	Yes
Mr	Child	SA	UCT	M	W	BSc Hons	2006	1	Graduated	Yes	Yes	Yes
Mr	Lubbe	SA	Wits	M	W	BSc Hons	2006	1	Graduated	Yes	Yes	Yes
Ms	Rode	SA	Tshwane UT	F	W	B Tech	2006	2	Graduated	No	No	Yes

* Excludes years of leave of absence during treatment for a serious medical condition

5. Collaborators (Loosely involved with CoE)

Title	Surname	Citizenship	Institution	Gender	Race	% time spent working in CoE
Dr	Allen	SA	Durban Mus	M	W	1
Mr	Anderson	SA	N Cape N Cons	M	W	5
Dr	Aronson	France	CNRS	M	W	1
Prof	Balmford	UK	Cambridge	M	W	2
Dr	Barker	USA	U Minnesota	M	W	1
Dr	Barrowclough	USA	A Mus Nat Hist	M	W	1
Dr	Bates	USA	Chicago Mus.	M	W	1
Dr	Beresford	USA	Stockton Coll	F	W	1
Prof	Blignaut	SA	U Pretoria	M	W	1
Dr	Boucher	SA	U Stellenbosch	M	W	1
Dr	Cooper	SA	UCT	M	W	5
Dr	Covas	Portugal	U Edinburgh	F	W	1
Prof	Craig	SA	Rhodes	M	W	1
Dr	Crawford	SA	MCM	M	W	5
Dr	Croxall	UK	BAS	M	W	1
Mr	Cupido	SA	WC Dept Agric	M	B	1
Dr	Cuthbert	UK	RSPB	M	W	1
Prof	Davies	UK	Cambridge	M	W	1
Dr	De Villiers	SA	UCT	F	W	5
Dr	Donaldson	SA	SANBI	M	W	1
Dr	Double	Australia	Aust Natnl U	M	W	1
Dr	Dranzoa	Uganda	Makerere U	F	B	1
Dr	Dyke	Ireland	UC Dublin	M	W	1
Prof	Esler	SA	U Stellenbosch	F	W	1
Dr	Farris	UK	Swed Mus NH	M	W	1
Prof	Fjelds�	Denmark	U Copenhagen	M	W	1
Dr	Gr�millet	France	CNRS	W	M	30
Dr	Groth	USA	A Mus Nat Hist	M	W	1
Dr	Hackett	USA	Chicago Mus.	F	W	1
Dr	Hatchwell	UK	U Sheffield	M	W	5
Prof	Hedderson	SA	UCT	M	W	10
Dr	Hilton	UK	RSPB	M	W	10
Dr	Jansen	SA	Tswane U Tech	M	W	10
Dr	Jeltsch	Germany	U Potsdam	M	W	1
Dr	Jetz	USA	Princeton U	M	W	1
Dr	K�llersj�	Sweden	Swed Mus NH	F	W	1
Mr	Kato	Japan	NI Polar Res	M	W	1
Dr	Le Maitre	SA	CSIR	M	W	1
Dr	Lens	Belgium	U Ghent	M	W	1
Prof	Martin	USA	U Montana	M	W	1
Prof	Martinez del Rio	USA	U Wyoming	M	W	1
Prof	McGeoch	SA	U Stellenbosch	F	W	1
Ms	Nangambi	SA	Natal Museum	F	B	1
Dr	Nel	SA	WWF SA	M	W	5

Dr	Oschadleus	SA	UCT	M	W	1
A/Prof	Payseur	USA	U Wisconsin	M	W	1
Dr	Pereira	Canada	Roy Ont Mus	M	W	1
Prof	Reilly	SA	Tswane U Tech	M	W	1
Prof	Richardson	SA	U Stellenbosch	M	W	1
Dr	Ropert-Coudert	Japan	NI Polar Res	M	W	1
Dr	Sorenson	USA	Boston U	M	W	1
Dr	Szekely	Hungary	U Bath, UK	M	W	1
Prof	Underhill	SA	UCT	M	W	1
Ms	Van Deventer	SA	Cape Nature	F	W	1
Dr	Van Vuuren	SA	U Stellenbosch	F	W	1
Prof	Voelker	USA	U Memphis	M	W	1
Mr	Ward	SA	Cape Nature	M	W	1
Dr	Wiegand	Germany	U Leipzig	M	W	1
Dr	Williams	SA	Cape Nature	M	W	1
Prof	Wissel	Germany	U Leipzig	M	W	5
Dr	Wolf	USA	U New Mexico	M	W	1
Dr	Woog	Germany	Nat Hist Mus	M	W	1
Prof	Yeaton	Mexico	U San Luis	M	W	1

5. Administrative Staff

Title	Surname	Position	Based at	Gender	Race
Mrs	Buchanan	Administrator	UCT	F	W
Mr	Hermann	Field supervisor	UCT	M	W
Ms	Jacobs	Snr Secretary	UCT	F	B
Dr	Lloyd	CoE Manager	UCT	M	W
Mr	Mansfield	Research manager	UCT	M	B
Mr	Tobler	Snr technical officer	UCT	M	W
Mrs	Sandwith	Librarian	UCT	F	W

OUTPUTS

Books / Chapters in Books

- Lloyd, P.,** Martin, T.E., Redmond, R.L., Hart, M.M., Langner, U. & Bassar, R.D. 2006. Assessing the influence of spatial scale on the relationship between avian nesting success and forest fragmentation. Pp 259-273 in: J. Wu, K.B. Jones, H. Li & O.L. Loucks (eds), *Scaling and Uncertainty Analysis in Ecology: Methods and Applications*, Springer, Netherlands.
- Ryan, P.G.** 2006. Family Cisticolidae (Cisticolas and allies). Pp. 378-419 in: del Hoyo, J., Elliott, A. & Christie, D.A. (eds) *Handbook of the Birds of the World, Vol. 11. Old World Flycatchers to Old World Warblers*. Lynx Edicions, Barcelona.
- Ryan, P.G., Dean, W.R.J., Madge, S.C. & Pearson, D.J.** 2006. Family Cisticolidae (Cisticolas and allies): species accounts. Pp. 420-490 in: del Hoyo, J., Elliott, A. & Christie, D.A. eds. *Handbook of the Birds of the World, Vol. 11. Old World Flycatchers to Old World Warblers*. Lynx Edicions, Barcelona.

Articles in Peer reviewed journals

A total of 47 articles were published in SCI-ranked journals during 2006, with a further 13 peer-reviewed articles published in unranked journals (see Appendix 1 for a complete listing).

Published conference proceedings

- Crowe, T.M., Bloomer, P.,** Randi, E., Lucchini, V., Kimball, R., Braun, E. & J.G. Groth. 2006. Supra-generic cladistics of landfowl (Order Galliformes). *Acta Zoologica Sinica* 52 (Supplement):358-361.
- Randi, E. & **Crowe, T.M.** 2006 Evolutionary genetics of the Phasianidae: Introduction. *Acta Zoologica Sinica* 52 (Supplement):357.
- Ryan, P.G.,** Nel, D.C. & Cooper, J. 2006. Reducing longline mortality in seabirds: a South African perspective. *Acta Zoologica Sinica* 52 (Supplement): 645–648.

Products / Artifacts / Patents

None.

Conferences / meetings attended: Name (month, place), persons attending

AHEAD Working Group meeting for the Greater Limpopo Transfrontier Conservation Area (February, South Africa), Cumming
Resilience Alliance meeting (March, South Africa), Cumming
South African National Biodiversity Institute (SANBI) workshop on "Developing a national research & monitoring framework for birds and environmental change" (April, South Africa), Cumming
Workshop on "Albatross demography" (May, France), Vincent
Joint Conference of Quail VI and Perdix XII (June, USA), Crowe
Symposium of the South African Society for Systematic Biology (July, South Africa), Bloomer, Crowe, Hermann
11 th International Behavioral Ecology Congress (July, France)
21 st International Ornithological Congress (August, Germany), Delpont, Du Plessis, Hermann, Johannson, Lloyd, McKechnie, Roxburgh, Spottiswoode
SANBI workshop on "Criteria for listing endangered ecosystems" (August, South Africa), Cumming
SANBI workshop on "Birds and climate change" (September, South Africa), Lloyd, Seymour, Wanless
Southern African Wildlife Management Association conference (September, South Africa), Bloomer, Little
4 th North American Ornithological Congress (October, Mexico), McKechnie
36 th Annual North American Symposium on Bat Research (October, USA), McKechnie
CSIR workshop on "Freshwater conservation planning" (October, South Africa), Turpie
Southern Seabird Solution workshop on "Trawl impacts on seabirds" (October, New Zealand), Watkins
Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR) meeting (October, Tasmania), Watkins

Conferences / meetings hosted

Fifteen training workshops to train 98 fisheries observers and 33 compliance officers in bycatch reduction measures in the long-line and trawl fishing industries (South Africa and Namibia)
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FINANCES

Income and expenditure statement



UNIVERSITY OF CAPE TOWN
Faculty of Science
PD Hahn building
Upper Campus
Rondebosch

Percy Fitzpatrick Centre of Excellence
Financial Statements January to December 2006

	Fund 426078	Fund 021384	All funds
Brought forwards from 2005	R -166,647.86	R -2,030,651.16	R -2,197,299.02
Income total	R -2,183,511.80	R -98,843.88	R -2,282,355.68
NRF Income Total	R -1,980,100.00		
UCT Income Total	R -200,000.00		
Other income Total	R -3,411.80		
Investment income		R -98,843.88	
Net transfer value	R -1,200,000.00	R 1,200,000.00	R -
CR transfer Total	R -1,200,000.00	R 1,200,000.00	
DR transfer Total			
Expenditure total	R 2,573,045.14		R 2,573,045.14
Salaries Total	R 607,598.63		
Bursaries	R 595,613.12		
Conferences and related travel Total	R 47,510.44		
Other Travel and subsistence	R 290,864.41		
Equipment - Motor Vehicles			
Equipment - Other	R 153,186.30		
Computers	R 46,259.79		
Transfers to other Collaborators	R 320,600.00		
Running Expenses Total	R 26,606.03		
Fieldwork and Lab Expenses	R 468,653.59		
Running expenses - Minor Works	R 16,152.83		
Carried forward to 2007	R -977,114.52	R -929,495.04	R -1,906,609.56

Reconciliation

Sap balance on fund 426078 at 31/12/06	R 974,495.17
Research levy from 2005 to be refunded	R 2,309.19
Research Levy from 2006 to be refunded	R 310.16
	<u>R 977,114.52</u>

Director: Percy Fitzpatrick Institute

Date

Project Manager

Date

A copy of the auditor's report is presented as Appendix 3.

Cash flow and notes

DST-NRF CoE Programme
Birds as Keys to Biodiversity Conservation at the Percy FitzPatrick Institute

CASH FLOW ANALYSIS FOR THE 2006 FINANCIAL YEAR

DESCRIPTION	Jan-06	Feb-06	Mar-06	Apr-06	May-06	Jun-06	Jul-06	Aug-06	Sep-06	Oct-06	Nov-06	Dec-06	TOTAL	Annual Budget	VARIANCE
NRF	1,973,358	990,050									990,050		3,953,458	3,350,000	603,458
Interest													0		0
Other				200,000									200,000		200,000
TOTAL INCOME	1,973,358	990,050	0	200,000	0	0	0	0	0	0	990,050	0	4,153,458	3,350,000	803,458
Salaries	-33,912	-32,861	-37,463	-39,727	-186,536.06	-35,734.35	-35,723.60	-35,724	-33,718	-53,413	-49,748	-30,739	-605,299	-683,000	77,701
Student costs		-112,000	-114,500	-12,000		-117,850	-50,000	-106,125	-7,400		-34,000	-10,500	-564,375	-902,000	337,625
Conferences and related travel		-1,886		-39,898	-10,095.08	-24,058.46	-24,962.00	-4,962	-28,482	-2,621	-20,008	-14,935	-171,909	-180,000	8,091
Equipment													0	0	0
Running	-32,064	-141,315	-56,687	-71,687	-90,302.65	1,949.11	-50,013	-113,507	-88,548	-206,013	-173,795	-144,180	-1,166,161	-1,585,000	418,839
TOTAL EXPENSES	-65,975	-288,063	-208,650	-163,312	-286,934	-175,694	-160,698	-260,318	-158,148	-262,047	-277,552	-200,354	-2,507,744	-3,350,000	842,257

Note: This cash flow report:

1. Shows actual expenditure only (excluding commitments) for all months
2. Must be emailed to robd@nrf.ac.za not later than 15 days after the month end
3. Must reflect the entire costs of the CoE including satellite campuses
4. Regards income as positive cash flow and expenditure as negative cash flow

A summary of the annual carry-forward in relation to income, available budget (income plus carry forward from the previous year) and expenditure is tabulated below, with anticipated figures on expenditure and carry-forward for 2007.

Year	Income	Available budget	Expenditure	Carry-forward
2004	2,025,067	2,025,067	158,533	1,866,534
2005	2,350,644	4,217,178	2,019,879	2,197,299
2006	2,282,356	4,479,655	2,573,045	1,906,610
2007	2,120,000	4,026,610	3,411,200	615,410

The award of CoE funding only in 2004 meant that expenditure in 2004 was negligible, resulting in a large carry-forward to 2005. Expenditure during 2005 approximated the annual award amount. Expenditure during 2006 represented a 27% increase on expenditure in 2005, and the Centre anticipates a further 33% increase through 2007, to result in a substantial reduction in the annual carry-forward. This managed smoothing out of expenditure has been anticipated from the outset, particularly since this CoE does not have the requirement to purchase expensive equipment.

Operating budget for the CoE and the broader Percy FitzPatrick Institute for 2007

The abbreviated operating budget for 2007 is tabulated below. This reflects the budget administered by the host institution (UCT) for the Percy FitzPatrick Institute, DST/NRF Centre of Excellence.

INCOME	NRF CoE	UCT	Other	TOTAL
Carry-over from 2006	1,906,610			
Allocation for 2007	2,120,000	2,800,000	4,009,100 ¹	
TOTAL	4,026,610	2,800,000	4,009,100	10,659,923
EXPENDITURE				
Salaries	694,200	2,400,000	765,000	
Student costs	1,019,000		473,000 ²	
Conferences	235,000			
Equipment	0		320,000	
Running	1,463,000	400,000	2,451,100 ³	
TOTAL	3,411,200	2,800,000	4,009,100	10,220,300
Carry forward to 2008	615,410	0	0	615,410

¹Estimated

²Excludes student costs borne by collaborating institutions (both inside and outside of South Africa) for students without CoE bursary support

³Excludes substantial running costs borne by collaborating institutions (both inside and outside of South Africa)

Appendix 1: Publications for 2006 (CoE members in bold type)

Articles in SCI-ranked journals (47):

- Abbott, C.L., Double, M.C., Gales, R., Baker, G.B., Gales, R., Lashko, A., Robertson, C.J.R. & **Ryan, P.G.** 2006. Molecular provenance analysis for Shy and White-capped Albatrosses killed by fisheries interactions in Australia, New Zealand and South Africa. *Conservation Genetics* 7:531-542
- Alston, K.P.** & Richardson, D.M. 2006. The roles of habitat features, disturbance, and distance from putative source populations in structuring alien plant invasions at the urban/wildland interface on the Cape Peninsula, South Africa. *Biological Conservation* 132:183-198
- Angel, A.**, Branch, G.M., **Wanless, R.M.** & Siebert, T. 2006. Causes of rarity and range restriction of an endangered, endemic limpet, *Siphonaria compressa*. *Journal of Experimental Marine Biology and Ecology* 330:245-260
- Aronson, J., **Milton, S.** & Blignaut, J. 2006. Conceiving the science, business and practice of restoring natural capital. *Ecological Restoration* 24:22-24
- Aronson, J., **Milton, S.**, Blignaut, J. & Clewell, A.F. 2006. Editorial – Natural capital: the limiting factor. *Ecological Engineering* 28:1-5
- Balmford, B.J., **A. Balmford**, S. Blakeman, A. Manica & R.M. Cowling. 2006. Diurnal versus nocturnal pollination of *Brunsvigia gregaria* R.A. Dyer (Amaryllidaceae) at a coastal site. *South African Journal of Botany* 72:291-294.
- Bowie, R.C.K.** 2006. Book Review: The speciation and biogeography of Birds by I. Newton. *Ostrich* 77: 116-117.
- Bowie, R.C.K.** , J. Fjeldså, S.J. Hackett, J.M. Bates & **T.M. Crowe**. 2006. Coalescent models reveal the relative roles of ancestral polymorphism, vicariance, and dispersal in shaping phylogeographical structure of an African montane forest robin. *Molecular Phylogenetics and Evolution* 38:171–188.
- Covas, R.**, Dalecky, A., Caizergues, A. & **Doutrelant, C.** 2006. Kin associations and direct vs indirect fitness benefits in colonial cooperatively breeding sociable weavers *Philetairus socius*. *Behavioral Ecology and Sociobiology* 60:323-331.
- Crowe, T.M.**, **Bowie, R.C.K.**, **Bloomer, P.**, **Mandiwana, T.**, Hedderson T., Randi, E., Pereira, S.L. & **Wakeling, J.** 2006 Phylogenetics and biogeography of, and character evolution in gamebirds (Aves: Galliformes): effects of character exclusion, partitioning and missing data. *Cladistics* 22:1-38.
- Cumming, G.S.** & Spiesman, B.J. 2006. Regional problems need integrated solutions: pest management and conservation biology in agroecosystems. *Biological Conservation* 131:533-543.
- Cumming, G.S.** & van Vuuren, D.P. 2006. Will climate change affect ectoparasite species ranges? *Global Ecology and Biogeography* 15:486-497.
- Dean, W.R.J.** 2006. Book review: Non-cooperative breeding in the California Scrub-jay. *Ostrich* 77:112.
- Dean, W.R.J.** 2006. Longevity and survival of colonies of *Messor capensis* (Formicidae: Myrmicinae) in the Karoo, South Africa. *African Entomology* 14: 381-383.

- Dean, W.R.J., Milton, S.J.** & Anderson, M.D. 2006. Use of road kills and roadside vegetation by Pied and Cape Crows in semi-arid South Africa. *Ostrich* 77:102-104.
- Delport, W.,** Grant, T.J., **Ryan, P.G. & Bloomer, P.** 2006. Ten microsatellite loci for evolutionary research on *Nesospiza* buntings. *Molecular Ecology Notes* 6:1180-1183.
- Dobson, A., Lodge, D., Alder, J., **Cumming, G.S.,** Keymer, J., McGlade, J., Mooney, H., Rusak, J.A., Sala, O., Wolters, V., Wall, D., Winfree, R., & Marguerite A. Xenopoulos 2006. Habitat loss, trophic collapse, and the decline of ecosystem services. *Ecology*, 87(8):1915–1924.
- Eccard, J.A., **Dean, W.R.J.,** Wichmann, M.C., Huttunen, S.M., Eskelinen, E., Moloney, K.A. and Jeltsch, F. 2006. Use of large Acacia trees by the cavity dwelling Black-tailed Tree Rat in the southern Kalahari. *Journal of Arid Environments* 64:604-615.
- Ericson, P.G.P., Zuccon, D., Ohlson, J.I., **Johansson, U.S.,** Alvarenga, H. and Prum, R.O. 2006. Higher-level phylogeny and morphological evolution of tyrant flycatchers, cotingas, manakins and their allies (Aves: Tyrannida). *Molecular Phylogenetics and Evolution* 40:471-483.
- Eshiamwata, G.W., Berens, D.G., Bleher, B., **Dean, W.R.J.** & Böhning-Gaese, K. 2006. Bird assemblages in isolated *Ficus* trees in Kenyan farmland. *Journal of Tropical Ecology* 22:723-726.
- Farmer, H.** 2006. Lagomorph distribution across Little Karoo vegetation types. *South African Journal of Wildlife Research* 36:186-188.
- Feldheim, K.A., McFarlane, M.L. and **Bowie, R.C.K.** 2006. Isolation of highly polymorphic autosomal microsatellite loci and a sex-linked locus from sugarbirds. *Molecular Ecology Notes* 6:1019-1021.
- Fjeldsá, J., **Bowie, R.C.K.** & Kiure, J. 2006. The forest batis, *Batis mixta*, is two species: description of a new, narrowly distributed *Batis* species in the Eastern Arc biodiversity hotspot. *Journal of Ornithology* 147:578-590.
- Fritz EL, Slavik T, **Delport W,** Olivier B, van der Merwe SW. 2006. Incidence of *Helicobacter felis* and the effect of coinfection with *Helicobacter pylori* on the gastric mucosa in the African population. *Journal of Clinical Microbiology* 44: 1692-1696.
- Fuchs, J., Fjeldsá, J., **Bowie, R.C.K.,** Voelker, G. and Pasquet, E. 2006. The African warbler genus *Hyliota* as a lost lineage in the Oscine songbird tree: molecular support for an African origin of the Passerida. *Molecular Phylogenetics & Evolution* 39:186-197.
- Gimenez, O., **Covas, R.,** Brown, C.R., Anderson, M.K., Brown, M.B. and Lenormand, T. 2006. Nonparametric estimation of natural selection on quantitative trait using mark-recapture data. *Evolution* 60:460-466.
- Goss-Custard, J.D., West, A.D., Yates, M.G., Caldow, R.W.G., Stillman, R.A., Bardsley, L., Castilla, J., Castro, M., Dierschke, V., dit Durrell, S.E.A.LeV., Eichhorn, G., Ens, B.J., Exo, K.-M., Udayangani-Fernando, P.U., Ferns, P.N., **Hockey, P.A.R.,** Gill, J.A., Johnstone, I., Kalejta-Summers, B., Masero, J.A., Moreira, F., Nagarajan, R.V., Owens, I.P.F., Pacheco, C., Perez-Hurtado, A., Rogers, D., Scheiffarth, G., Sitters, H., Sutherland, W.J., Triplet, P., Worrall, D.H., Zharikov, Y., Zwarts, L. & Pettifor, R.A.

2006. Intake rates and the functional response in shorebirds (Charadriiformes) eating macro-invertebrates. *Biological Reviews* 81:501-529.
- Grémillet, D., Pichegru, L., Siorat, F. & Georges, J.-Y.** 2006. Conservation implications of the apparent mismatch between population dynamics and foraging effort in French northern gannets from the English Channel. *Marine Ecology Progress Series* 310:15-25.
- Jansen, R., van der Spuy, S.D. & Crowe, T.M.** 2006. Low incidence of blood parasite infection within a population of Swainson's Spurfowl *Pternistis swainsonii*. *Ostrich* 77:109-111.
- Kahindo, C., **Bowie, R.C.K.** and Bates, J.M. 2006. The relevance of data on genetic diversity for the conservation of Afro-montane regions. *Biological Conservation* 134:262-270.
- Knight, A.T.** 2006. Failing but learning: Writing the wrongs after Redford and Taber. *Conservation Biology* 20: 1312-1314.
- Lewis, S., **Grémillet, D., Daunt, F., Ryan, P.G., Crawford, R.J.M. & Wanless, S.** 2006. Using behavioural and state variables to identify proximate causes of population change in a seabird. *Oecologia* 147:606-614.
- Lloyd, P.** 2006. Book review: Monitoring bird populations using mist-nets. *Ostrich* 77:114-115
- Lloyd, P.** 2006. Density-dependent nest predation: a field test. *African Journal of Ecology* 44: 293-295
- Martin, T.E., Bassar, R.D., Bassar, S.K., Fontaine, J.J., **Lloyd, P., Mathewson, H.A., Niklison, A.M. & Chalfoun, A.** 2006. Life-history and ecological correlates of geographic variation in egg and clutch mass among passerine species. *Evolution* 60:390-398.
- McKechnie, A.E., Freckleton, R.P. & Jetz, W.** 2006. Phenotypic plasticity in the scaling of avian basal metabolic rate. *Proceedings of the Royal Society B* 273:931-937.
- Muntifering, J.R., Dickman, A.J., Perlow, L.M., Hruska, T., **Ryan, P.G., Marker, L.L. & Jeo, R.M.** 2006. Managing the matrix for large carnivores: a novel approach and perspective from cheetah (*Acinonyx jubatus*) habitat suitability modelling. *Animal Conservation* 9:103-112.
- O'Farrell, P. & **Milton, S.J.** 2006. Road verge and rangeland plant communities in the southern Karoo: exploring what influences diversity, dominance and cover. *Biodiversity and Conservation* 15:921-938.
- Owino, A.O. & Ryan, P.G.** 2006. Habitat associations of papyrus specialist birds at three papyrus swamps in western Kenya. *African Journal of Ecology* 44:438-443.
- Petersen, S.L., Ryan, P.G. & Grémillet, D.** 2006. Is food availability limiting African Penguins *Spheniscus demersus* At Boulders? A comparison of foraging effort at mainland and island colonies. *Ibis* 148:14-26.
- Radford, A.N. & du Plessis, M.A.** 2006. Dual function of allopreening in the cooperatively breeding green woodhoopoe, *Phoeniculus purpureus*. *Behavioral Ecology & Sociobiology* 61:221-230
- Radford, A.N. & Ridey, A.R.** 2006. Recruitment calling: a novel form of extended parental care in an altricial species. *Current Biology* 16:1-5.

- Ropert-Coudert, Y., Wilson, R.P., **Grémillet, D.**, Kato, A., Lewis, S. & **Ryan, P.G.** 2006. Electrocardiogram recordings in free-ranging gannets reveal minimum difference in heart rate during flapping versus gliding flight. *Marine Ecology Progress Series* 328:275-284.
- Ryan, P.G.**, Dorse, C. & Hilton, G.M. 2006. The conservation status of the spectacled petrel *Procellaria conspicillata*. *Biological Conservation* 131:575-583
- Tews, J., **Milton, S.J.**, Esther, A. Jeltsch, F. 2006. Linking a population model with a landscape model: assessing the impact of land use and climate change on savanna shrub cover dynamics. *Ecological Modelling* 195:219-228.
- Wichmann, M.C., **Dean, W.R.J.** & Jeltsch, F. 2006. Predicting the breeding success of large raptors in arid southern Africa: a first assessment. *Ostrich* 77:22-27.
- Wilson, J.W.**, **Burle, M.-H.** & Bester, M.N. 2006. Vagrant Antarctic pinnipeds at Gough Island. *Polar Biology* 29:905-908.

Articles in unranked journals (13):

- Aronson, J., **Milton, S.**, Blignaut, J. & Clewell, A.F. 2006. Nature conservation as if people mattered. *Journal for Nature Conservation* 14:260-263
- Aronson, J., Clewell, A.F., Blignaut, J. & **Milton, S.** 2006. Ecological restoration: a new frontier for nature conservation and economics. *Journal for Nature Conservation* 14:135-139
- Cumming, G.S.** & Guégan, J-F. 2006. Food webs and disease: is pathogen diversity limited by vector diversity? *EcoHealth* 3:163-170.
- Dean, W.R.J.** 2006. Clarification of the type-locality of Temminck's Courser *Cursorius temminckii damarensis* Reichenow, 1900. *Bulletin of the British Ornithologists' Club* 126:309-310.
- Dean, W.R.J.** 2006. Age structure of a Palm-nut Vulture *Gypohierax angolensis* population. *Vulture News* 55:8-9.
- Dean, W.R.J.** 2006. The type locality of Temminck's Courser *Cursorius temminckii damarensis* Reichenow, 1900. *Bulletin of the British Ornithologists' Club* 126:309.
- Dean, W.R.J.**, **Sandwith, M.** & **Milton, S.J.** 2006. The bird collections of C.J. Andersson in southern Africa, 1850-1867. *Archives of Natural History* 33:159-171.
- Dean, W.R.J.**, Yeaton, R.I. & **Milton, S.J.** 2006. Foraging sites of Turkey Vultures *Cathartes aura* and Common Ravens *Corvus corax* in central Mexico. *Vulture News* 54:30-33.
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Appendix 2: Breakdown of publication outputs by individual members of the CoE – publications are listed as: first-authored (1st) or co-authored (2nd) papers in SCI-rated journals; peer-reviewed papers in unrated journals (unrated); and semi-popular (popular).

Name	Degree	1st year	Grad. year	Gender	Race	Publications			
						1 st	2 nd	unrated	popular
O’Ryan	Staff	2006		F	B				
Mandiwana	Staff/PhD	2004		F	B	1	1		
Bloomer	Staff	2004		F	W		2		1
Milton	Staff	2004		F	W	1	5	7	1
Turpie	Staff	2004		F	W	1		1	
Bowie	Staff	2004		M	W	5	8		1
Crowe	Staff	2004		M	W	2	12		2
Cumming	Staff	2006		M	W	2	1	1	
Dean	Staff	2004		M	W	4	7	13	1
Du Plessis	Staff	2004		M	W	1	11		14
Hockey	Staff	2004		M	W		1	3	9
Lloyd	Staff	2004		M	W	6	4		1
McKechnie	Staff	2004		M	W	1			5
Ryan	Staff	2004		M	W	5	18	1	26
Covas	Postdoc	2004		F	W	5	2		
Eising	Postdoc	2005		F	W				
Ridley	Postdoc	2005		F	W		1		2
Spottiswoode	Postdoc	2005		F	W	2		1	2
Roxburgh	Postdoc	2005		F	W	1			
Delport	Postdoc	2005		M	W	1	1		1
Johannson	Postdoc	2005		M	W		1		
Taylor	Postdoc	2005		M	W				
Radford	Postdoc	2004		M	W	8			1
De Ponte	PhD	2003	Inc	F	W				
Hermann	PhD	2004	Inc	F	W				
Nelson	PhD	2005	Inc	F	W				
Petersen	PhD	2004	Inc	F	W	1		2	1
Seymour	PhD	1999	2006	F	W				
Techow	PhD	2002	Inc	F	W				
Barnes	PhD	1998	Inc	M	W				
Cohen	PhD	1999	Inc	M	W		1	1	9
Loewenthal	PhD	1998	Inc	M	W				
Wanless	PhD	2004	Inc	M	W		1	1	2
Curtis	MSc		2005	F	W	1		1	3
Parker	MSc	2003	2006	F	W				
Biggs	MSc	2004	2006	M	W				2
Oatley	MSc	2005	Inc	M	W		1		
Vincent	MSc	2005	Inc	M	W				
Daniels	MSc CB	2006	Inc	F	B				
Baudains	MSc CB	2005	2006	F	W				
Da Silva	MSc CB	2004	2005	F	W				
Farmer	MSc CB	2004	2005	F	W	1			
Fox	MSc CB	2005	2006	F	W				
Gordon	MSc CB	2006	Inc	F	W				
Hill	MSc CB	2006	Inc	F	W				

Jenkins	MSc CB	2006	Inc	F	W	
Lauret-Stepler	MSc CB	2005	2006	F	W	
MacGregor	MSc CB	2006	Inc	F	W	
McDonell	MSc CB	2005	2006	F	W	
Napier	MSc CB	2004	2005	F	W	
Nupen	MSc CB	2006	Inc	F	W	
Owen	MSc CB	2004	2005	F	W	
Schultz	MSc CB	2006	Inc	F	W	
Shine	MSc CB	2005	2006	F	W	
Spear	MSc CB	2004	2005	F	W	
Stephen	MSc CB	2005	2006	F	W	
Thomas	MSc CB	2006	Inc	F	W	
Vickers	MSc CB	2005	2006	F	W	
Boundja	MSc CB	2006	Inc	M	B	
Kaliba	MSc CB	2005	2006	M	B	
Mao	MSc CB	2004	2005	M	B	1
Maswime	MSc CB	2005	2006	M	B	
Musangu	MSc CB	2006	Inc	M	B	
Osano	MSc CB	2004	2005	M	B	
Owino	MSc CB	2004	2005	M	B	1
Raharinjanahary	MSc CB	2006	Inc	M	B	
Rahlao	MSc CB	2004	2005	M	B	
Soka	MSc CB	2004	2005	M	B	
Suinyuy	MSc CB	2005	2006	M	B	
Bird	MSc CB	2006	Inc	M	W	
Burnside	MSc CB	2006	Inc	M	W	
Little	MSc CB	2004	2005	M	W	1
Lowe	MSc CB	2004	2005	M	W	
Mader	MSc CB	2004	2005	M	W	
Scovronick	MSc CB	2005	2006	M	W	
Shelton	MSc CB	2006	Inc	M	W	
Earlier students						24 11 1 5

Appendix 3: Student fate report – for all CoE-registered students graduating after 2004. The last column has been left blank for individuals for whom no response has yet been received.

Title	Surname	Citizen-ship	Gender	Race	Degree	Year of 1 st registration	Year completed	Months to 1 st job	First position // current position if different
Mr	Kaliba	Malawi	M	B	MSc CB	2005	2006	0	Senior Ornithologist & Acting Director of Museums of Malawi
Mr	Mao	Uganda	M	B	MSc CB	2004	2005		PhD student, UCT
Mr	Maswime	SA	M	B	MSc CB	2005	2006	2	GIS Technician, SANBI // Principal Environmental Officer, Dept Environmental Affairs & Tourism
Mr	Osano	Kenya	M	B	MSc CB	2004	2005	1	Programme Manager, Improving Livelihoods Project Co-ordinator // Sauvé Scholar, McGill University
Mr	Owino	Kenya	M	B	MSc CB	2004	2005	0	Research Scientist, National Museums of Kenya // Research Scientist, Kenya Wildlife Service
Mr	Rahlao	Lesotho	M	B	MSc CB	2004	2005		PhD student, U Stellenbosch
Mr	Soka	Tanzania	M	B	MSc CB	2004	2005	3	Associate Expert, Diversity for Livelihoods Programme - Biodiversity International
Mr	Suinyuy	Cameroon	M	B	MSc CB	2005	2006	2	Research assistant, UCT // PhD student, SANBI
Ms	Baudains	SA	F	W	MSc CB	2005	2006	0	Teaching assistant, UCT // Environmental Officer, Dept Environmental Affairs & Development Planning
Ms	Da Silva	Canada	F	W	MSc CB	2004	2005	8	Research assistant, Poverty Consulting // Intern, Ontario Ministry of Natural Resources, Canada
Ms	Farmer	UK	F	W	MSc CB	2004	2005		PhD student
Ms	Fox	SA	F	W	MSc CB	2005	2006		Contract position with SANParks
Ms	Lauret-Stepler	Reunion	F	W	MSc CB	2005	2006		
Ms	McDonell	Canada	F	W	MSc CB	2005	2006		
Ms	Napier	SA	F	W	MSc CB	2004	2005		
Ms	Owen	UK	F	W	MSc CB	2004	2005	0	Freelance science & natural history writer

Ms	Parker	SA	F	W	MSc	2003	2006		Not formally employed - a mother Ecologist, SANBI Co-ordinating Scientist, BCLME/BENEFIT
Dr	Seymour	SA	F	W	PhD	1999	2006		
Ms	Shine	Ireland	F	W	MSc CB	2005	2006	0	
Ms	Spear	SA	F	W	MSc CB	2004	2005		PhD student, U Stellenbosch
Ms	Stephen	SA	F	W	MSc CB	2005	2006	0	Freelance Ecologist, Ezemvelo KZN Wildlife
Ms	Vickers	Canada	F	W	MSc CB	2005	2006		
Mr	Biggs	SA	M	W	MSc	2004	2006	2	Research Officer, CSIRO Sustainable Ecosystem Division, Australia
Mr	Little	SA	M	W	MSc CB	2004	2005	1	Research assistant, UCT // PhD student
Mr	Lowe	UK	M	W	MSc CB	2004	2005		
Mr	Mader	SA	M	W	MSc CB	2004	2005	0	Capacity building for local govt // Technical Coordinator of Local Action for Biodiversity (LAB), an ICLEI-Local Governments for Sustainability initiative.
Mr	Scovronick	USA	M	W	MSc CB	2005	2006		

Appendix 4: List of students for 2007

Title	Surname	Citizen-ship	Institution	Gender	Race	Degree	Status	CoE funding support level		
								Bursary	Running	Indirect
Dr	Eising	Netherlands	UCT	F	W	Postdoc		Yes	Yes	Yes
Dr	Fuchs	USA	UCT	M	W	Postdoc		Yes	Yes	Yes
Dr	Johansson	Sweden	US	M	W	Postdoc		Yes	Yes	Yes
Dr	Ridley	Australia	UCT	F	W	Postdoc		Yes	No	Yes
Dr	Roxburgh	SA	UCT	F	W	Postdoc		No	No	Yes
Dr	Spottiswoode	SA	Cambridge	F	W	Postdoc		No	Yes	Yes
Dr	Taylor	UK	UCT	M	W	Postdoc		No	Yes	Yes
Ms	Mandiwana	SA	UCT	F	B	PhD	Incomplete	Yes	Yes	Yes
Ms	Nangammbi	SA	UKZN	F	B	PhD	Incomplete	No	No	Yes
Mr	Chaskda	Nigeria	UCT	M	B	PhD	Incomplete	No	Yes	Yes
Mr	Kaliba	Malawi	UCT	M	B	PhD	Incomplete	Yes	Yes	Yes
Mr	Lokugalappatti	Sri Lanka	US	M	B	PhD	Incomplete	No	No	Yes
Mr	Ndanganga	Kenya	UCT	M	B	PhD	Incomplete	No	Yes	Yes
Ms	De Ponte	Portugal	UCT	F	W	PhD	Incomplete	No	No	Yes
Ms	Hermann	SA	UP	F	W	PhD	Incomplete	No	Yes	Yes
Ms	Petersen	SA	UCT	F	W	PhD	Incomplete	No	Yes	Yes
Ms	Raihani	UK	Cambridge	F	W	PhD	Incomplete	No	No	Yes
Ms	Techow	SA	UCT	F	W	PhD	Incomplete	No	Yes	Yes
Mr	Barnes	SA	UCT	M	W	PhD	Incomplete	No	No	Yes
Mr	Cohen	SA	UCT	M	W	PhD	Incomplete	No	No	Yes
Mr	Knowles	SA	US	M	W	PhD	Incomplete	No	No	Yes
Mr	Loewenthal	SA	UCT	M	W	PhD	Incomplete	No	No	Yes
Mr	Wanless	SA	UCT	M	W	PhD	Incomplete	No	No	Yes
Ms	Daniels	SA	UCT	F	B	MSc	Incomplete	No	No	Yes
Ms	Seoraj	SA	UKZN	F	B	MSc	Incomplete	No	No	Yes

Mr	Babiker	Sudan	UCT	M	B	MSc	Incomplete			Yes
Mr	Boundja	Rep Congo	UCT	M	B	MSc	Incomplete			
Mr	Chaudhry	Pakistan	UCT	M	B	MSc	Incomplete			Yes
Mr	Kaliba	Malawi	UCT	M	B	MSc	Incomplete	No	Yes	Yes
Mr	Musangu	Kenya	UCT	M	B	MSc	Incomplete			
Mr	Ndlovu	Zimbabwe	UCT	M	B	MSc	Incomplete			
Mr	Raharinjanahary	Madagascar	UCT	M	B	MSc	Incomplete			
Ms	Gordon	SA	UCT	F	W	MSc	Incomplete			
Ms	Hampton	SA	UCT - ADU	F	W	MSc	Incomplete	No	No	Yes
Ms	Hempson	SA	UCT	F	W	MSc	Incomplete			Yes
Ms	Hill	SA	UCT	F	W	MSc	Incomplete			
Ms	Humphrey	SA	UCT	F	W	MSc	Incomplete			Yes
Ms	Jenkins	New Zealand	UCT	F	W	MSc	Incomplete			
Ms	Le Grange	SA	UCT	F	W	MSc	Incomplete			Yes
Ms	Lipsey	USA	UCT	F	W	MSc	Incomplete			Yes
Ms	McGregor	SA	UCT	F	W	MSc	Incomplete			
Ms	Nupen	SA	UCT	F	W	MSc	Incomplete			
Ms	Okes	SA	UCT	F	W	MSc	Incomplete			Yes
Ms	Pichegru	France	U Louis Pasteur	F	W	MSc	Incomplete	No	No	Yes
Ms	Schultz	Australia	UCT	F	W	MSc	Incomplete			
Ms	Thomas	UK	UCT	F	W	MSc	Incomplete			
Ms	Thomasset	France	U Stellenbosch	F	W	MSc	Incomplete	No	No	Yes
Mr	Bird	SA	UCT	M	W	MSc	Incomplete			
Mr	Burnside	UK	UCT	M	W	MSc	Incomplete			
Mr	Child	SA	UCT	M	W	MSc	Incomplete			Yes
Mr	Joseph	SA	UCT	M	W	MSc	Incomplete			
Mr	Mann	SA	UCT	M	W	MSc	Incomplete			Yes
Mr	Oatley	SA	UCT	M	W	MSc	Incomplete	No	Yes	Yes
Mr	Puttick	SA	UCT	M	W	MSc	Incomplete			Yes

Mr	Shelton	SA	UCT	M	W	MSc	Incomplete			
Mr	Smit	SA	Wits	M	W	MSc	Incomplete	Yes	Yes	Yes
Mr	Vincent	SA	UCT	M	W	MSc	Incomplete	Yes	Yes	Yes
Mr	Bewana	SA	UCT	M	B	BSc Hons	Incomplete	Yes	Yes	Yes
Ms	Ingelthorpe	SA	Wits	F	W	BSc Hons	Incomplete	Yes	Yes	Yes
Ms	Stephenson	SA	UCT	F	W	BSc Hons	Incomplete	Yes	Yes	Yes
Ms	Laird	SA	UCT	F	W	BSc Hons	Incomplete	Yes	Yes	Yes
Ms	Brown	SA	UCT	F	W	BSc Hons	Incomplete	Yes	Yes	Yes
Ms	Smith	SA	UCT	F	W	BSc Hons	Incomplete	Yes	Yes	Yes
Ms	Anderson	South Africa	Tshwane UTech	F	W	B Tech	Incomplete	No	No	Yes

Appendix 6: Summary table of CoE members in 2006, with numbers expected for 2007. These figures include students co-supervised by CoE members, but registered at non-collaborating institutions.

Member category	Gender	Race	Number in 2006	Number in 2007
Project leader	F	B	2	2
	F	W	3	3
	M	W	9	9
	Total		14	14
Postdoc	F	W	5	4
	M	W	4	3
	Total		9	7
PhD	F	B	2	2
	M	B		4
	F	W	8	5
	M	W	4	5
	Total		14	16
MSc	F	B	3	2
	M	B	7	7
	F	W	17	15
	M	W	7	10
	Total		34	34
BSc Honours	M	B	1	1
	F	W	5	5
	M	W	3	
	Total		9	6