



DST-NRF Centre Of Excellence
Birds as Keys to Biodiversity Conservation
at the Percy FitzPatrick Institute

ANNUAL PROGRESS REPORT

Reporting Period
From: 1 January 2007
To: 31 December 2007

CONTENTS

	Page
Title Page	1
Executive Summary	2
Progress Report	4
Human Resources	11
Outputs	16
Finances	18
Appendix 1 – Publications for 2006	21
Appendix 2 – Individual publication outputs report	30
Appendix 3 – Student fate report	32
Appendix 4 – List of students for 2008	35
Appendix 5: – Summary of CoE members in 2007 and 2008	37
Appendix 6 – Auditor’s report	38

Identification

Name of Acting Director	: Philip A. R. Hockey
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	: 17 March 2008

EXECUTIVE SUMMARY

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

Total NRF funding for 2007	: R 2,477,037*
Funding from Host institution in 2006	: R 180,000**
Funding from other sources for the CoE in 2006	: R 33,186***
Carry forward from 2006	R 1,906,610
Total funding	: R 4,596,833

*includes investment income

**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 70 peer-reviewed papers were published in SCI-rated journals in 2007, 47 in journals with a rating ≥ 1.5 , 14 in journals with a rating ≥ 3.5 , and 3 in a journal with a rating ≥ 10 . This demonstrates good throughput of high-quality publications from projects initiated in 2005. Many of these projects are ongoing, so the Centre is well positioned for meeting long-term output targets.

(ii) Education and Training (Maximum 5 lines)

Eighteen PhD, 30 MSc students, and six BSc Honours students registered at South African institutions (24% black and 54% women) were supported directly or indirectly within the CoE during 2007. Three PhD, 14 MSc and 6 BSc Hons students graduated in 2007. Throughput rates have averaged 3.5 years for PhD ($n = 1$) and 1.6 years for MSc students ($n = 42$) registered since the inception of the CoE in 2004.

(iii) Information Brokerage (Maximum 5 lines)

Fifty semi-popular publications and three semi-technical books were published. CoE members attended eleven international and two local conferences and workshops, and hosted a number of training workshops with the fishing industry in South Africa. CoE members also presented seminars and illustrated talks at numerous universities, bird clubs, and membership-based societies.

(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 30 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 six journals, and reviewed at least 60 papers for peer-review journals, and at least seven grant proposals or researcher rating applications for the NRF and NSF.

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

A strong policy on recruiting women ensured a 54% representation of women in the postgraduate student body for 2007. 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 attracting a sufficient number of South African students from designated groups is being addressed through approaches that include a week-long Academy in Biodiversity Conservation, internship and bridging-year programmes, and competitive bursaries to top-quality students. The long interval between the departure (August 2007) and replacement (not yet accomplished) of a key team member (Prof Morné du Plessis, Director) may impact negatively on research productivity in the short term.

5. General Comments (Maximum 15 lines)

The Centre continues to achieve an increasing trend in the quality of its research publications, as measured by their impact factors, and is well positioned to meet the longer-term (2006-2008) research output targets of Stage 3. 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. We thank the Department of Science and Technology and the National Research Foundation for their continued support of our Centre of Excellence. We also extend a big thank you to our Board members for their commitment and advice for the ongoing development of our Centre, and to the outgoing Director, Prof. Morné du Plessis, for leading the early development of the Centre so successfully.

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 70 papers carrying the CoE address were published in SCI-rated journals during 2007, 47 of which were published in journals with an impact factor rating ≥ 1.5 (see Appendix 1 for a full listing). Fourteen of these papers were published in journals with a rating ≥ 3.5 ; three of them in a journal with a rating ≥ 10 (Figure 1).

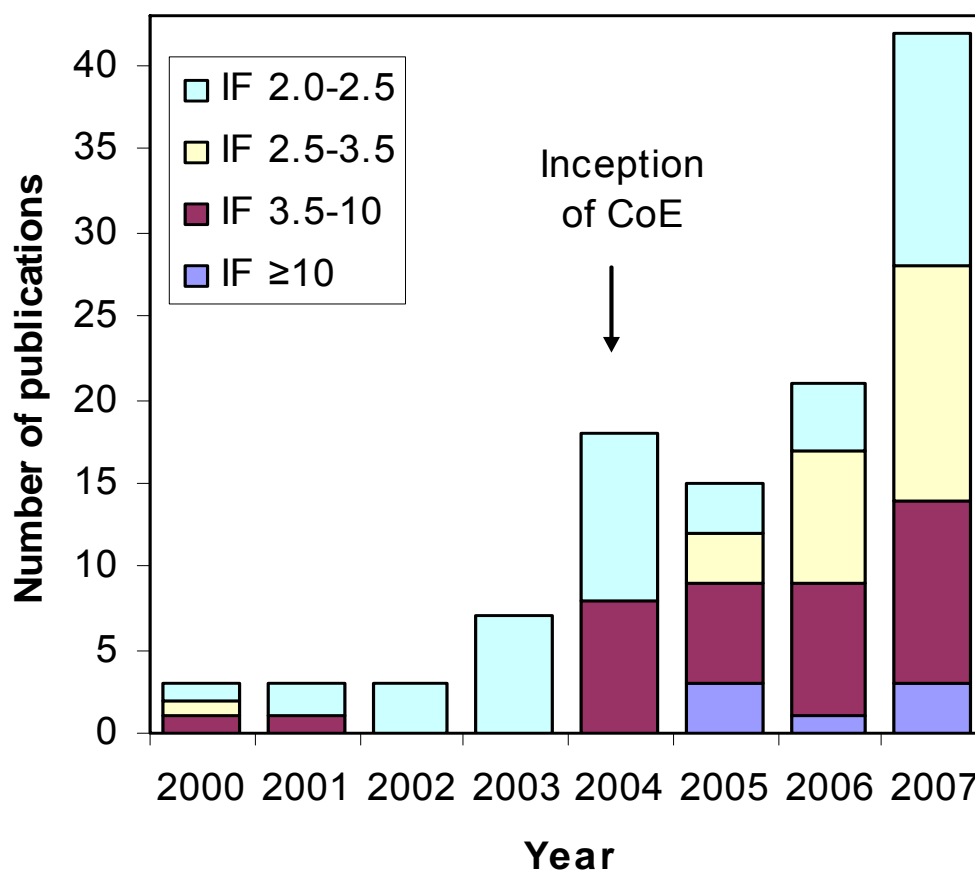


Figure 1: Annual distribution of papers (by journal Impact Factor rating, as coloured bars) published by the Centre in journals with an impact factor ≥ 2 since 2000.

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 841,000, produced three of the 14 papers to be published in 2007 in journals with an impact factor ≥ 3.5 , including a major paper in the journal *Science* on the process of ecological speciation in island finches. The production of this paper depended critically on: (1) the collaboration between researchers at the CoE host institution and the molecular laboratory of A/Prof Paulette Bloomer at the University of Pretoria; and (2) the inputs of postdoc Dr Wayne Delpont.
2. **Evolutionary ecology.** Research under this theme, with an expended budget of around R 946,000, generated six of the 14 papers with an impact factor ≥ 3.5 in 2007. Postdoc Dr Amanda Ridley, who coordinates a long-term study of cooperative breeding in a population of Southern Pied Babblers *Turdoides bicolor* she habituated in the Kalahari, had an exceptionally productive year, publishing eight papers, all in multidisciplinary journals with an impact factor ≥ 2 . Prof Andrew Cockburn, a visitor from Australian National University spent a 6-month sabbatical at the Centre during 2007, and published a major paper in the journal *Science* on helper effects on female reproductive investment in cooperatively breeding birds. Dr David Grémillet, a visitor from CNRS (France) completed a year-long sabbatical at the Centre in mid-2007. His synthesis of several years' research on the foraging ecology of seabirds undertaken in collaboration with the Centre resulted in six multidisciplinary publications during 2007.
3. **Maintaining biodiversity.** Research under this theme, with an expended budget of around R 540,000, generated five of the 14 papers with an impact factor ≥ 3.5 in 2007. These included a paper sole-authored by two MSc (Cons. Biol.) students published in the journal *Conservation Biology*. The "Spatial parasitology and epidemiology" research programme has made substantial progress in setting up monitoring sites in South Africa, Botswana, Zimbabwe and Mozambique for examining the movements of ducks and other waterbirds and the potential for the exchange of different avian influenza strains and other parasites and pathogens across southern Africa.

Several CoE members received awards during 2007 in recognition of their contributions to research excellence in their fields. Dr Andrew McKechnie (Wits) was awarded a prestigious President's Award rating by the NRF for his research in the field of ecological physiology. Prof. Graeme Cumming, the Centre's Pola Pasvolsky Chair in Conservation Biology, received: (1) the Meiring Naudé Medal from the Royal Society of South Africa, for scientific excellence exhibited by a scientist under the age of 35; and (2) a UCT Fellows Award as an academic under the age of 40 that has made significant independent contributions to research in his research fields of landscape ecology and spatial parasitology and epidemiology. Prof. Timothy Crowe was awarded a UCT Fellowship for original and distinguished academic work in his research field on the taxonomy, phylogeny and biogeography of gamebirds.

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 career positions 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

Eighteen PhD, 30 MSc students, and six BSc Honours students (total = 54) registered at South African institutions were supported directly or indirectly within the CoE during 2007. Thirteen (24%) of these students were black, and 29 (54%) were women. Twenty-six new students (24% black) joined the CoE in 2007: 6 PhD, 15 MSc, and 5 BSc Hons. Eight postdoctoral associates were supported within the CoE during 2007. Three PhD, 14 MSc and 6 BSc Hons students graduated in 2007. Since the inception of the CoE in 2004, throughput rates have averaged:

- 7.5 years for PhD students registered before 2004 (n = 4);
- 3.5 years for PhD students registered during or after 2004 (n = 1)
- 2.7 years for MSc students registered before 2004 (n = 3); and
- 1.6 years for MSc students registered during or after 2004 (n = 42).

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. Twenty-six students and postdocs benefited from CoE support to attend conferences and workshops during 2007. Twenty-four students, including the entire MSc (Cons. Biol.) class attended the 21st Annual Meeting of the Society for Conservation Biology, an international meeting held in Port Elizabeth in July 2007. Mr Duan Biggs, Mr Matthew Child, Ms Marta De Ponte Machado, Ms Sarah-Jane Fox, Ms Julia Jenkins, Mr Musangu Mwema, Ms Nicola Okes, Mr Philip Osano, Ms Samantha Petersen, Ms Lorien Pichegru, Ms Philippa Schultz, Ms Vanessa Stephen, Ms Hannah Thomas, and Ms Nokuthula Wistebaar presented oral or poster papers at the SCB conference. Mr Ben Smit (MSc) presented a paper at the 4th Australasian Ornithological Conference in Perth in December 2007. Mr Ross Wanless (PhD) gave a talk at a meeting on the impacts of rats on island biodiversity at a workshop in Hawaii. Ms Samantha Petersen (PhD) attended the ICCAT (International Commission for the Conservation of Atlantic Tunas) Bycatch Working Group meeting in Madrid in February, the IOTC (Indian Ocean Tuna Commission) Bycatch Working Group meeting and Depredation Workshop in the Seychelles in July, the SEAFO (South East Atlantic Fisheries Organisation) meeting in Namibia in October, the BCLME/BCC (Benguela Current Large Marine

Ecosystem/Benguela Current Commission) Workshop in Namibia in November, as well as several fishery working group meetings in South Africa and Namibia.

Mr Matthew Child (M.Sc. Cons. Biol.) won the Best Speaker prize at the 1st SAEON Graduate Student Network (GSN) conference in September 2007. Mr Mao Angua, a past M.Sc. (Cons. Biol.) graduate of the Centre, won a student presentation award at the 21st Annual Meeting of the Society for Conservation Biology in July 2007. Ms Nicola Raihani (PhD) won the runner-up prize in the New Scientist essay competition for an essay based on her research on Southern Pied Babblers.

Planning for the 2nd DST/NRF Academy in Biodiversity Conservation (21-25 January 2008) was successfully concluded during 2007. Advertisements were sent to all universities in South Africa, and also posted at the Society for Conservation Biology conference in Port Elizabeth and the Zoological Society of South Africa conference in Potchefstroom in July. Fourteen students that had completed 2-4 years of their degrees were selected from the following institutions: Univ. Cape Town (3); Univ. KwaZulu-Natal (3); Univ. Limpopo (1); Univ. Pretoria (2); Univ. Stellenbosch (3); Univ. Venda (1); and Univ. Eduardo Mondlane, Maputo (1). Ten of these students are from designated groups, and seven are women.

Mr Aphiwe Bewana, a past graduate of Walter Sisulu University who was recruited to the CoE following his attendance of the 1st Academy in Biodiversity Conservation, graduated with an upper 2nd-class pass in BSc Hons, and has registered for an MSc (Cons. Biol.) at the CoE in 2008.

The progression of students into jobs or further postgraduate study after graduation is outlined in the student fate report in Appendix 3. This report is not yet sufficiently complete for detailed analysis.

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 2007. 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 50 semi-popular publications were produced during the review period (see Appendix 1 for details). CoE members also contributed to three books, these being *Restoring natural capital: science, business, and practice*, co-edited by Prof Sue Milton, *Field guide to the animals and plants of Tristan da Cunha and Gough Island*, edited by A/Prof Peter Ryan, and *Birds to watch in Namibia: red, rare and endemic species* by Dr Rob Simmons.

The findings of published research from the Southern Pied Babbler research project received extensive coverage in the international media, including appearances on radio and TV shows. Three film crews also visited the study site to film aspects of babbler behaviour.

CoE members attended eleven international and three local conferences and workshops, and hosted a number of training workshops with the fishing industry in South Africa (see Outputs listing below for details). Prof. Morné du Plessis served on the local organising committee for the international SCB Conference. CoE members also presented seminars and illustrated talks at numerous universities, bird clubs, and membership-based societies.

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 30 joint-venture student training initiatives and other networking interactions between institutions directly or loosely collaborating with the CoE. One post-graduate student (Nelson) worked in the molecular laboratory of CoE collaborator Dr. Colleen O’Ryan (Molecular Biology, UCT), and four students (La Grange, Mandiwana, Nupen, Techow) worked in the molecular laboratory of Prof. Terry Hedderon (Botany, UCT). A further five postdocs (Fuchs, Johansson) and students (Kaliba, Lokugalappatti, Ribeiro) worked in the molecular laboratory of A/Prof. Rauri Bowie at the University of California, Berkeley, gaining valuable experience in working in a top international lab with cutting-edge molecular facilities. A/Prof. Bowie also assisted with the supervision of eight CoE students. The laboratories of A/Prof. Bowie and Prof. Paulette Bloomer (UP) also performed analyses for a further four UCT-based ecological research projects. The ongoing collaborative collecting effort has been invaluable in providing samples critical for research projects at all collaborating institutions. Fourteen Conservation Biology MSc students benefitted from supervisors or co-supervisors loosely affiliated with the CoE. Four students registered at institutions outside of the CoE framework were co-supervised by CoE members.

A wide range of close collaborative working relationships with scientific peers now exist both nationally and internationally (see list of collaborators below). Prof. Andrew Cockburn (Australian National University) spent a 6-month sabbatical at the CoE, and during this time he interacted extensively with postgraduate students, and contributed to a student-organised workshop examining current findings and future research directions in cooperative breeding. Dr David Grémillet (CNRS, France) completed a year-long sabbatical at the CoE in mid-2007. He also interacted extensively with CoE students, and helped supervise Ms Nicola Okes’s research project (MSc Cons. Biol.). 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 four different universities were involved in research projects at CoE study sites in South Africa.

The CoE has continued to build much-needed African capacity (outside of South Africa) in the broad area of biodiversity conservation, with the graduation of three

African students (from DRC, Kenya and Madagascar) and the enrolment of a further four African students during 2007 (from Malawi, Nigeria, Sudan and Zimbabwe).

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 and 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 during 2007.

BirdLife and WWF Responsible Fisheries Programme:- PhD student Ms Samantha Petersen has left BirdLife to head up the Responsible Fisheries Programme for WWF South Africa, which works with fishers at sea to reduce the impacts of fisheries on non-target species, including seabirds, sharks and turtles. Mr Barry Watkins has taken over BirdLife International's Albatross Taskforce team for southern Africa. This programme continues to monitor bycatch of seabirds killed in both long-line and trawl fisheries, and is working closely with the fisheries to ensure effective implementation of mitigation measures. Preliminary observations from the trawl fishery suggest that the bird-scaring or *tori* lines developed by Barry to reduce the numbers of birds being dragged under the sea by trawl warps have reduced seabird mortality by around 90%. Large numbers of fishery observers and compliance officials have been trained, resulting in a marked improvement in observer data quality.

Marine litter and its influence on seabirds:- A/Prof Peter Ryan has been invited to write review papers on monitoring plastics in the environment, including the use of seabirds as monitors of plastics at sea, and on the environmental impacts of plastics for a special issue on this subject for the *Transactions of the Royal Society, London*.

Island conservation:- A/Prof Peter Ryan, PhD student Mr Ross Wanless and a team of international collaborators have been studying the ecology of House Mice *Mus musculus* on Gough Island, and examining the feasibility of dropping large quantities of poison bait by helicopter to eradicate the mice, which are endangering the Gough Bunting *Rowettia goughensis* and seabird populations by preying on their eggs and chicks. They have also been active in monitoring efforts to eradicate invasive plants from Gough and Tristan da Cunha islands, which are globally important sites for

biodiversity conservation. During 2007, they published 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. One copy was supplied to each household living on Tristan, and the remainder are being sold to tourists and other interested parties, with the proceeds going to Tristan's Conservation Fund.

CoE members serve on the editorial boards of six scientific journals: Biological Conservation, Diversity and Distributions, Bird Conservation International, Ostrich, African Journal of Marine Science, and Southern African Journal of Wildlife Research. CoE members also reviewed more than 60 papers for peer-reviewed international and local journals, and at least seven grant proposals or researcher rating applications for the NRF and NSF (USA) during 2007.

Prof Morné du Plessis served on the International Ornithological Congress Committee, the Advisory Board to the Institute for Plant Conservation, the Council of BirdLife South Africa, and the Advisory Committee of the Mammal Research Institute. He was also a Trustee to WWF-SA and Chair of its Conservation Committee. A/Prof Phil Hockey serves on the Seychelles Island Foundation Board of Trustees and the BirdLife South Africa Rarities and List Committees. Prof Tim Crowe serves on the International Ornithological Congress Committee, the Board of the South African Biodiversity Information Facility. Prof Paulette Bloomer was Vice-president of the Southern African Society for Systematic Biology, taking over as President from 2008. She is also a member on the IUCN Specialist Group on Afrotheria, the Yellowfish Working Group Scientific Panel, and the steering committee of the South African Biosystematics Initiative. A/Prof Peter Ryan is a member of the IMAF Working Group of CCAMLR and the South Atlantic Island Plant Specialist Group, which is part of the IUCN Species Survival Commission. He is a Tristan da Cunha Conservation Officer and a member of the Tristan Biodiversity Advisory Group. Dr Jane Turpie serves on the Steering Committee of several Water Research Commission projects. Dr Penn Lloyd serves on the Steering Committee of SAFRING. Prof Graeme Cumming is serving as a member of the local organising committee for the next DIVERSITAS meeting (Cape Town, 2009).

6. Gender and equity impacts of research

Objective

A medium- to long-term objective is to 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, 50% of postgraduate students supported by the CoE in 2007 were women. Furthermore, 50% of the eight postdoctoral fellows working with the CoE during 2007 were women. The staff profile of the CoE is more difficult to adjust due to the permanent nature of appointments.

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
Ms	Mandiwana	South Africa	UCT – Botany	F	B	25
Dr	O’Ryan	South Africa	UCT - MCB	F	B	10
Prof.	Bloomer	South Africa	UP	F	W	10
Dr	Turpie	South Africa	UCT	F	W	10
Prof.	Crowe	South Africa	UCT	M	W	100
Prof.	Cumming	Zimbabwe	UCT	M	W	100
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
Prof.	Ryan	South Africa	UCT	M	W	100

Prof. Morné du Plessis has resigned as Director of the CoE, leaving UCT at the end of August 2007 to take up the prestigious position of Chief Executive Officer of the World Wide Fund for Nature (WWF) South Africa. A/Prof. Phil Hockey has served as Acting Director since then. Prof. Sue Milton resigned as a team member of the CoE. Due to the strictly ornithological focus of the Centre, she felt that she was unable to contribute sufficiently to the research activities of the Centre, as her research has a strong botanical focus. Nonetheless, she remains associated with the CoE as an Honorary Professor. Dr Richard Dean has retired. Dr Andrew McKechnie moved from Wits University to the University of Pretoria in early 2008.

2. Research Associates & Honorary Professors

Title	Surname	Citizenship	Institution	Gender	Race	% time spent working in CoE
Dr	Barnard	UK	UCT	F	W	3
Prof	Milton	South Africa	UCT	F	W	10
Prof	Cumming	Zimbabwe	U Zimbabwe	M	W	10
Dr	Jenkins	South Africa	UCT	M	W	20
Dr	Kemp	South Africa	UCT	M	W	1
Dr	Simmons	UK	UCT	M	W	40

3. Post Docs

Title	Surname	Citizenship	Institution	Gender	Race	% time spent working in CoE	CoE funding support level		
							Bursary	Running	Indirect
Dr	Eising	Netherlands	UCT	F	W	100	Yes	Yes	Yes
Dr	Ridley	New Zealand	UCT	F	W	100	Yes	Yes	Yes
Dr	Roxburgh	SA	UCT	F	W	100	No	No	Yes
Dr	Spottiswoode	SA	Cambridge, UK	F	W	10	No	Yes	Yes
Dr	Bruinzeel	Netherlands	UCT	M	W	100	No	No	Yes
Dr	Fuchs	France	UCT	M	W	100	Yes	Yes	Yes
Dr	Johansson	Sweden	UCT	M	W	100	Yes	Yes	Yes
Dr	Taylor	UK	UCT	M	W	100	Yes	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		Incomplete	No	Yes	Yes
Mr	Chaskda	Nigeria	UCT	M	B	PhD	2007		Incomplete	No	Yes	Yes
Mr	Kaliba	Malawi	UCT	M	B	PhD	2007		Incomplete	Yes	Yes	Yes
Mr	Lokugalappatti	Sri Lanka	US	M	B	PhD	Aug 2005		Incomplete	No	Yes	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	Jones	SA	UCT	F	W	PhD	2007		Incomplete	Yes	Yes	Yes
Ms	Nelson-Flower	USA	UCT	F	W	PhD	2006		Incomplete	Yes	Yes	Yes
Ms	Petersen	SA	UCT	F	W	PhD	2004		Incomplete	No	Yes	Yes
Ms	Pichegru	France	U Louis Pasteur	F	W	PhD	Oct 2004		Incomplete	No	No	Yes
Ms	Raihani	UK	Cambridge, UK	F	W	PhD	2004		Incomplete	No	No	Yes
Ms	Ribeiro	Portugal	UCT	F	W	PhD	Apr 2007		Incomplete	No	Yes	Yes
Ms	Techow	SA	UCT	F	W	PhD	2002	5.5	Graduated	No	Yes	Yes
Mr	Barnes	SA	UCT	M	W	PhD	1998	9.5	Graduated	No	No	Yes
Mr	Cohen	SA	UCT	M	W	PhD	1999		Incomplete	No	No	Yes
Mr	Little	SA	UCT	M	W	PhD	2007		Incomplete	Yes	Yes	Yes
Mr	Loewenthal	SA	UCT	M	W	PhD	1998	10	Graduated	Yes	No	Yes
Mr	Mills	SA	UCT	M	W	PhD	2007		Incomplete	Yes	No	Yes

Mr	Oatley	SA	UCT	M	W	PhD	2005		Incomplete	Yes	Yes	Yes
Mr	Wanless	SA	UCT	M	W	PhD	Jul 2004	3.5	Graduated	Yes	No	Yes
Ms	Daniels	SA	UCT	F	B	MSc	2006	1.5	Graduated	No	No	Yes
Ms	Wistebaar	SA	UCT	F	B	MSc	2007		Incomplete	No	No	Yes
Mr	Babiker	Sudan	UCT	M	B	MSc	2007		Incomplete	Yes	No	Yes
Mr	Boundja	Rep Congo	UCT	M	B	MSc	2006	1.5	Graduated	No	No	Yes
Mr	Chaudhry	Pakistan	UCT	M	B	MSc	2007		Incomplete	No	No	Yes
Mr	Musangu	Kenya	UCT	M	B	MSc	2006	1.5	Graduated	No	Yes	Yes
Mr	Ndlovu	Zimbabwe	UCT	M	B	MSc	2007		Incomplete	Yes	Yes	Yes
Mr	Raharinjanahary	Madagascar	UCT	M	B	MSc	2006	1.5	Graduated	No	No	Yes
Ms	Gordon	SA	UCT	F	W	MSc	2006	1.5	Graduated	No	No	Yes
Ms	Hampton	SA	UCT - ADU	F	W	MSc	2005		Incomplete	Yes	No	Yes
Ms	Hempson	SA	UCT	F	W	MSc	2007		Incomplete	No	No	Yes
Ms	Hill	SA	UCT	F	W	MSc	2006	1.5	Graduated	No	No	Yes
Ms	Humphrey	SA	UCT	F	W	MSc	2007		Incomplete	Yes	No	Yes
Ms	Jenkins	New Zealand	UCT	F	W	MSc	2006	1.5	Graduated	No	Yes	Yes
Ms	La Grange	SA	UCT	F	W	MSc	2007		Incomplete	Yes	Yes	Yes
Ms	Lannas	SA	UCT	F	W	MSc	2007		Incomplete	No	No	Yes
Ms	Lipsey	USA	UCT	F	W	MSc	2007		Incomplete	No	No	Yes
Ms	MacGregor	SA	UCT	F	W	MSc	2006	1.5	Graduated	No	Yes	Yes
Ms	Nupen	SA	UCT	F	W	MSc	2006	2	Graduated	Yes	Yes	Yes
Ms	Okes	SA	UCT	F	W	MSc	2007		Incomplete	Yes	Yes	Yes
Ms	Schultz	Australia	UCT	F	W	MSc	2006	1.5	Graduated	No	Yes	Yes
Ms	Thomas	UK	UCT	F	W	MSc	2006	1.5	Graduated	No	Yes	Yes
Mr	Bird	SA	UCT	M	W	MSc	2006	1.5	Graduated	No	No	Yes
Mr	Burnside	UK	UCT	M	W	MSc	2006	1.5	Graduated	No	No	Yes
Mr	Child	SA	UCT	M	W	MSc	2007		Incomplete	Yes	Yes	Yes
Mr	Joseph	SA	UCT	M	W	MSc	2007		Incomplete	Yes	No	Yes
Mr	Mann	SA	UCT	M	W	MSc	2007		Incomplete	No	No	Yes
Mr	Puttick	SA	UCT	M	W	MSc	2007		Incomplete	No	No	Yes
Mr	Shelton	SA	UCT	M	W	MSc	2006	1.5	Graduated	No	No	Yes
Mr	Smit	SA	Wits	M	W	MSc	2007		Incomplete	Yes	Yes	Yes
Mr	Vincent	SA	UCT	M	W	MSc	2005		Incomplete	Yes	Yes	Yes
Mr	Bewana	SA	UCT	M	B	BSc Hons	2006	2	Graduated	Yes	Yes	Yes
Ms	Brown	SA	UCT	F	W	BSc Hons	2007	1	Graduated	Yes	Yes	Yes
Ms	Laird	SA	UCT	F	W	BSc Hons	2007	1	Graduated	Yes	Yes	Yes
Ms	Smith	SA	UCT	F	W	BSc Hons	2007	1	Graduated	Yes	Yes	Yes

Ms	Stephenson	SA	UCT	F	W	BSc Hons	2007	1	Graduated	Yes	Yes	Yes
Mr	Inglethorpe	SA	Wits	F	W	BSc Hons	2007	1	Graduated	Yes	Yes	Yes

* Upgraded from MSc

** Leave of absence during 2007

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
Prof	Cockburn	Australia	Australia Nat U	M	W	50
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	1
Mr	De Swardt	SA	Natnl Museum	M	W	1
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	Fjeldså	Denmark	U Copenhagen	M	W	1
Dr	Grémillet	France	CNRS	W	M	5
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	1
Dr	Hilton	UK	RSPB	M	W	1
Dr	Jansen	SA	Tswane U Tech	M	W	1
Dr	Jeltsch	Germany	U Potsdam	M	W	1
Dr	Jetz	USA	Princeton U	M	W	1
Dr	Källersjö	Sweden	Swed Mus NH	F	W	1
Mr	Kato	Japan	N I Polar Res	M	W	1
Dr	Le Maitre	SA	CSIR	M	W	1
Dr	Lens	Belgium	U Ghent	M	W	1
Dr	Lopes	Portugal	U Porto	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	Nangammbi	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
Dr	Radford	UK	U Bristol, UK	M	W	5
Prof	Reilly	SA	Tswane U Tech	M	W	1
Prof	Richardson	SA	U Stellenbosch	M	W	1
Dr	Ropert-Coudert	Japan	N I 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

6. Administrative Staff

Title	Surname	Position	Based at	Gender	Race
Mrs	Buchanan	Administrator	UCT	F	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

Mrs Charlene Jacobs resigned at the end of 2007 due to family commitments. Mrs Tania Jacobs was appointed as the new Senior Secretary in February 2008.

OUTPUTS

Books / Chapters in Books

Three books edited by CoE members were published: *Restoring natural capital: science, business, and practice*, co-edited by Sue Milton, *Field guide to the animals and plants of Tristan da Cunha and Gough Island*, edited by Peter Ryan, and *Birds to watch in Namibia: red, rare and endemic species* by Rob Simmons. Seven different chapters were written by CoE members in these books (see Appendix 1 for details).

Articles in peer-reviewed journals

A total of 70 articles were published in SCI-ranked journals during 2007 (see Appendix 1 for a complete listing).

Published conference proceedings

Fjeldså, J., **Johansson, U.S., Lokugalappatti, L.G.S. & Bowie, R.C.K.** 2007. Diversification of African greenbul in space and time: linking ecological and historical processes. *Journal of Ornithology* 148 (Suppl. 2): S359-S367.

Products / Artifacts / Patents

None.

Technical reports

Seven technical reports were produced for WWF South Africa and the Benguela Current Large Marine Ecosystem (BCLME) Project. Seven peer-reviewed papers appeared in non-ISI-listed journals, and three book reviews were published. See Appendix 1 for a complete listing.

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

ICCAT (International Commission for the Conservation of Atlantic Tunas) Bycatch Working Group meeting (February, Spain), Petersen
8 th Neotropical Ornithological Congress, (May, Venezuela), McKechnie
Oxford University Centre for the Environment workshop on "Resilience, Realities and Research in African Environments" (June, UK), Cumming
IOTC (Indian Ocean Tuna Commission) Bycatch Working Group meeting and Depredation Workshop (July, Seychelles), Petersen
21 st Annual Meeting of the Society for Conservation Biology (July, Port Elizabeth), Babiker, Chaudhry, Child, Hempson, Humphry, Joseph, La Grange, Lipsey, MacGregor, Mann, Ndlovu, Okes, Petersen, Puttick, Wistebaar, Taylor, Cumming, du Plessis, Hockey
33 rd Conference of the Zoological Society of Southern Africa (July, Potchefstroom), Smit, Techow
7 th International Congress of Comparative Physiology, (August, Brazil), McKechnie
Resilience Alliance meeting (September, Corsica), Cumming
SEAFO (South East Atlantic Fisheries Organisation) meeting (October, Namibia), Petersen
BirdLife International Global Seabird Programme workshop (October, Australia), Watkins
Commission for the Conservation of Antarctic Marine Living Resources (CCAMLR) meeting (October, Australia), Watkins
1 st SAEON Graduate Student Network (GSN) conference (September, Cape Town), Child
BCLME/BCC (Benguela Current Large Marine Ecosystem/Benguela Current Commission) Workshop (November, Namibia), Petersen
4 th Australasian Ornithological Congress (December, Australia), McKechnie, Smit

Conferences / meetings hosted

Du Plessis served on the local organising committee for the 21st Annual Meeting of the Society for Conservation Biology
Several training workshops for fishing-boat skippers, fisheries observers and compliance officers in bycatch reduction measures in the long-line and trawl fishing industries (South Africa)

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 2007

	Fund 426078	Fund 021384	All funds
Brought forwards from 2006	-977,114.52	R -929,495.04	R -1,906,609.56
Income total	-2,153,186.00	R -357,036.86	R -2,510,222.86
NRF Income Total	R -2,120,000.00		
UCT Income Total	R -6,000.00		
Other income Total	R -27,186.00		
Investment income		R -357,036.86	
Net transfer value	-200,000.00	R 200,000.00	R -
CR transfer Total	R -1,200,000.00	R -1,000,000.00	
DR transfer Total	R 1,000,000.00	R 1,200,000.00	
Expenditure total	3,200,089.34		R 3,200,089.34
Salaries Total	R 637,542.60		
Bursaries (includes R55 000.01 transferred to other institutional collaborators)	R 987,735.01		
Conferences and related travel Total	R 102,623.81		
Other Travel and subsistence	R 341,446.13		
Equipment - Motor Vehicles	R 222,461.86		
Equipment - Other	R 101,166.18		
Computers	R 73,628.88		
Transfers to other Collaborators	R 213,916.05		
Running Expenses Total	R 92,736.16		
Fieldwork and Lab Expenses	R 426,832.66		
Running expenses - Minor Works			
Carried forward to 2007	-130,211.18	R -1,086,531.90	R -1,216,743.08

Reconciliation

Sap balance on fund 426078 at 31/12/07	-92,821.83
Advances in hand	-34,770.00
Research levy from 2005 to be refunded	-2,309.19
Research Levy from 2006 to be refunded	-310.16
	<u>-130,211.18</u>

Acting Director: Percy Fitzpatrick Institute

Date

Project Manager CoE

Date

A copy of the auditor's report is presented as Appendix 6.

Cash flow and notes

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

CASH FLOW ANALYSIS FOR THE 2007 FINANCIAL YEAR

DESCRIPTION	Jan-07	Feb-07	Mar-07	Apr-07	May-07	Jun-07	Jul-07	Aug-07	Sep-07	Oct-07	Nov-07	Dec-07	TOTAL	Annual Budget	VARIANCE
NRF	1,842,996	1,060,000					1,060,000						3,962,996	3,411,200	551,796
Interest													0		0
Other	63,614												63,614		63,614
TOTAL INCOME	1,906,610	1,060,000	0	0	0	0	1,060,000	0	0	0	0	0	4,026,610	3,411,200	615,410
Salaries	-29,916	-34,286	-32,772	-38,930	-189,803	-45,355	-51,014	-37,014	-37,234	-37,242	-58,962	-37,242	-629,769	694,200	64,431
Student costs	-107,298	-4,600	-121,000	-165,001	-12,831	-37,500	-118,100	-112,155	-193,250	-133,200	23,200		-981,735	1,019,000	37,265
Conferences and related travel			-24,569	-28,995	-22,339		-28,036		-26,651		-3,361	-4,900	-138,851	235,000	96,149
Equipment										-294,062			-294,062	0	-294,062
Running	-98,722	33,381	-93,166	-39,577	-100,110	-118,761	-93,088	-129,142	-152,985	-190,300	-73,147	-101,641	-1,157,256	1,463,000	305,744
TOTAL EXPENSES	-235,936	-5,505	-271,506	-272,503	-325,082	-201,617	-290,238	-278,310	-410,120	-654,804	-112,269	-143,783	-3,201,673	3,411,200	209,527
NET OUTCOME PROFIT/LOSS	1,670,674	1,054,495	-271,506	-272,503	-325,082	-201,617	769,762	-278,310	-410,120	-654,804	-112,269	-143,783	824,936		

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 and expenditure is tabulated below, with anticipated figures for 2007 and 2008.

Year	Income	Expenditure	Carry-forward
2004	R 2,025,067	R -158,533	R 1,866,534
2005	R 2,135,060	R -2,028,236	R 1,973,358
2006	R 1,980,100	R -2,253,458	R 1,906,610
2007	R 2,510,223	R -3,200,089	R 1,216,743
2008	R 2,247,200	R -3,327,300	R 136,643

Expenditure during 2007 was nearly R 1 million greater than in 2006, which reduced the carry-forward to 2008. Expenditure during 2008 is expected to increase slightly over expenditure in 2007, resulting in small anticipated carry-forward to 2009. A small carry-forward is required to carry the CoE through the first month of 2009 before the first CoE payment for the year is made by the NRF.

2. Operating Budget

The abbreviated operating budget for 2008 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 ²	TOTAL
Carry-over from 2007	1,216,743		2,740,200	
Operating income 2008	2,247,200 ¹	2,998,400 ²	975,700	
Student support		221,000		
Investment income			952,300	
Contract income			950,000	
TOTAL	3,463,943	3,219,400	5,618,200	12,301,543
EXPENDITURE				
Salaries	-845,000	-2,561,400	-468,900	
Student costs	-951,000	-184,500	-110,400 ³	
Conferences	-205,000			
Equipment	0		-51,000	
Running	-1,326,300	-530,200	-1,027,900 ⁴	
TOTAL	-3,327,300	-3,276,100	-1,658,200	-8,261,600
Carry forward to 2009	136,643	-56,700	3,960,000	4,039,943

¹CoE award for the year; ²Estimated; ³Excludes student costs borne by collaborating institutions (both inside and outside of South Africa) for students without CoE bursary support; ⁴Excludes substantial running costs borne by collaborating institutions (both inside and outside of South Africa)

Appendix 1: Publications for 2007 (CoE members in bold type)

Articles in SCI-ranked journals (70):

- Amis, M.A., Rouget, M. **Balmford, A.**, Thuiller, W., Kleynhans, C.J., Day, J. and Nel, J. 2007. Predicting freshwater habitat integrity using land-use surrogates. *Water SA* 33:215-221.
- Baker, G. B., Double, M. C., Gales, R., Tuck, G.N, Abbott, C.L, **Ryan, P.G., Petersen, S.L.**, Robertson, C.J.R. and Alderman, R. 2007. A global assessment of the impact of fisheries-related mortality on shy and white-capped albatrosses: Conservation implications. *Biological Conservation* 137: 319-333.
- Baudains, T.P. & Lloyd, P.** 2007. Habituation and habitat changes can moderate the impacts of human disturbance on shorebird breeding performance. *Animal Conservation* 10: 400-407.
- Bento, C.M., Beilfuss, R.D. & **Hockey, P.A.R.** 2007. Distribution, structure and simulation modeling of the Wattled Crane population in the Marromeu Complex of the Zambezi Delta, Mozambique. *Ostrich* 78: 185-193.
- Beresford, P., Barker, F.K., **Ryan, P.G. & Crowe, T.M.** 2007. The future of Africa in the history of oscine passerines: molecular systematics of several 'enigmas'. *Ostrich* 78: 315.
- Blignaut, J.N., Marais, C. & **Turpie, J.K.** 2007. Determining a charge for the clearing of invasive alien plant species (IAPs) to augment water supply in South Africa. *Water SA* 33: 27-34.
- Brown, M. & **Hockey, P.A.R.** 2007. The status and distribution of African Black Oystercatchers *Haematopus moquini* in Kwazulu-Natal, South Africa. *Ostrich* 78: 93-96.
- Chalfoun, A.D.** & Martin, T.E. 2007. Latitudinal variation in avian incubation attentiveness and a test of the food limitation hypothesis. *Animal Behaviour* 73:579-585.
- Crawford, R.J.M., Dyer, B.M., Kemper, J., **Simmons, R.E.** & Upfold, L. 2007. Trends in numbers of Cape Cormorants (*Phalacrocorax capensis*) over a 50-year period, 1956-57 to 2006-07. *Emu* 107: 253-261.
- Cumming, G.S.** 2007. Global biodiversity scenarios and landscape ecology. *Landscape Ecology* 22: 671-685.
- Cumming, S.G.**, Barnes, G. 2007. Characteristics land tenure dynamic by comparing spatial and temporal variations at multiple scales. *Landscape and Urban Planning* 83: 219-227.
- Curtis, O.E., Hockey, P.A.R. & Koeslag, A.** 2007. Competition with Egyptian Geese *Alopochen aegyptiaca* overrides environmental factors in determining productivity of Black Sparrowhawks *Accipiter melanoleucus*. *Ibis* 149: 502-508.
- Dean, W.R.J. & Milton, S.J.** 2007. Some additional breeding records for birds in Angola. *Ostrich* 78: 645-647.
- Delport, W., Crowe, T.M., Lloyd, P. & Bloomer, P.** 2007. Population growth confounds phylogeographic inference in Namaqua Sandgrouse. *Journal of Heredity* 98: 158-164.
- Delport, W.** & van der Merwe, S.W. 2007. The transmission of *Helicobacter pylori*: the effects of analysis method and study population on inference. *Best Practice & Research Clinical Gastroenterology* 21: 215-236.
- Doutrelant, C. & Covas, R.** 2007. Helping has signaling characteristics in a cooperatively breeding bird. *Animal Behaviour* 74: 739-747.
- Du Plessis, M.A., Simmons, R.E. & Radford, A.N.** 2007. Behavioural ecology of the Namibian Violet Woodhoopoe *Phoeniculus damarensis*. *Ostrich* 78:1-5.

- Einstipp, M.R., **Grémillet, D.** & Jones, D.R. 2007. Investigating the functional link between prey abundance and seabird predatory performance. *Marine Ecology Progress Series* 331: 267-279.
- Ericson, P.G.P., Anderson, C.L., Britton, T., Elzanowski, A., **Johansson, U.S.**, Källersjö, M., Ohlson, J.I., Parsons, T.J., Zuccon, D. & Mayr, G. 2006. Diversification of Neoaves: integration of molecular sequence data and fossils. *Biology Letters* 2: 543-547.
- Fjeldså, J., **Johansson, U.S.**, **Lokugalappatti, L.G.S.** & **Bowie, R.C.K.** 2007. Diversification of African greenbuls in space and time: linking ecological and historical processes. *Journal of Ornithology* 148: S359-S367.
- Foden, W., Midgley, G.F., Hughes, G. Bond, W.J., Thuiller, W., Hoffman, M.T., **Kaleme, P.**, Underhill, L.G., Rebelo, A. & Hannah, L. 2007. A changing climate is eroding the geographical range of the Namib Desert tree aloe through population declines and dispersal lags. *Diversity & Distributions* 13: 645-653.
- Fox, S.-J. and Hockey, P.A.R.** 2007. Impacts of a South African coastal golf estate on shrubland bird communities. *South African Journal of Science* 103: 27-35.
- Georges, J.-Y., Fossette, S., Billes, A., Ferraroli, S., Fretey, J., **Grémillet, D.**, Le Maho, Y., Myers, A.E., Tanaka, H. & Hays, G.C. 2007. Meta-analysis of movements in Atlantic leatherback turtles during the nesting season: conservation implications. *Marine Ecology Progress Series* 338: 225-232.
- Gil, D., Biard, C., Lacroix, A., **Spottiswoode, C.N.**, Saino, N., Puerta, M., Moller, A.P. 2007. Evolution of yolk androgens in birds: Development, coloniality, and sexual dichromatism. *American Naturalist* 169: 802-819.
- Hamer, K.C., Humphreys, E.M., Garthe, S., Hennicke, J., Peters, G., **Grémillet, D.**, Phillips, R.A., Harris, M.P. & Wanless, S. 2007. Annual variation in diets, feeding locations and foraging behaviour of gannets in the North Sea: flexibility, consistency and constraint. *Marine Ecology Progress Series* 338: 295-305.
- Hawn, A.T., Radford, A.N. and du Plessis, M.A.** 2007 Delayed breeding affects lifetime reproductive success differently in male and female Green Woodhoopoes. *Current Biology* 17: 1-6.
- Houlahan, J.E., Currie, D.J., Cottenie, K., **Cumming, G.S.**, Ernest, S.K.M., Findlay, C.S., Fuhlendorf, S.D., Gaedke, U., Legendre, P., Magnuson, J.J., McArdle, B.H., Muldavin, E.H., Noble, D., Russell, R., Stevens, R.D., Willis, T.J., Woiwod, I.P. & Wondzell, S.M. 2007. Compensatory dynamics are rare in natural ecological communities. *Proceedings of the National Academy of Sciences* 104: 3273-3277.
- Johansson, U.S.**, Fjeldså, J., **Lokugalappatti, L.G.S.** and **Bowie, R.C.K.** 2007. A nuclear DNA phylogeny and proposed taxonomic revision of African greenbuls (Aves, Passeriformes, Pycnonotidae). *Zoologica Scripta* 36: 417-427.
- Kahindo, C., **Bowie, R.C.K.** & Bates, J.M. 2007. The relevance of data on genetic diversity for the conservation of Afro-montane regions. *Biological Conservation* 134:262-270.
- Knight, A.T.** & Cowling, R.M. 2007. Embracing opportunism in the selection of priority conservation areas. *Conservation Biology* 21: 1124-1126.
- Knight, A.T.**, Smith, R.J., Cowling, R.M., Desmet, P.G., Faith, D.P., Ferrier, S., Gelderblom, C.M., Grantham, H., Lombard, A.T., Maze, K., Nel, J.L., Parrish, J.D., Pence, G.Q.K., Possingham, H.P., Reyers, B., Rouget, M., Roux, D. & Wilson, K.A. 2007. Improving the key biodiversity areas approach for effective conservation planning. *BioScience* 57: 256-261.
- Krook, K., Bond, W.J. & **Hockey, P.A.R.** 2007. The effect of grassland shifts on the avifauna of a South African savanna. *Ostrich* 78:271-279.

- Le Bohec, C., Gauthier-Clerc, M., **Grémillet, D.**, Pradel, R., Béchet, A., Gendner, J.-P. and Le Maho, Y. 2007. Population dynamics in a long-lived seabird: I. Impact of breeding activity on survival and breeding probability in unbanded king penguins. *Journal of Animal Ecology* 76: 1149-1160.
- Lipsey, M.K. & Child, M.F.** 2007. Combining the fields of reintroduction biology and restoration ecology. *Conservation Biology* 26: 1387-1390.
- Lloyd, P.** 2007. Predator control, mesopredator release, and impacts on bird nesting success: a field test. *African Zoology* 42: 180-186.
- Martin, T.E., Auer, S.K., Bassar, R.D., Niklison, A.M. & **Lloyd, P.** 2007. Geographic variation in avian incubation periods and parental influences on embryonic temperature. *Evolution* 61: 2558-2569.
- McKechnie, A.E., Ashdown, R.A.M.**, Christian, M.B. & Brigham, R.M. 2007. Torpor in an African caprimulgid, the freckled nightjar *Caprimulgus tristigma*. *Journal of Avian Biology* 38: 261-266.
- McKechnie, A.E.**, Chetty, K. & Lovegrove, B.G. 2007. Phenotypic flexibility in the basal metabolic rate of laughing doves: responses to short-term thermal acclimation. *Journal of Experimental Biology* 210: 97-106.
- Melo, M. & O’Ryan, C.** 2007. Genetic differentiation between Príncipe Island and mainland population of the grey parrot (*Psittacus erithacus*), and implications for conservation. *Molecular Ecology* 16: 1673-1685.
- Mills, A.J. & Milewski, A.** 2007 Geophagy and nutrient supplementation in the Ngorongoro Conservation Area, Tanzania, with particular reference to selenium, cobalt and molybdenum. *Journal of Zoology* 271: 110-118.
- Mills, M. S. L. & Cohen, C.** 2007 Brazza’s Martin *Phedina brazzae*: new information on range and vocalisations. *Ostrich* 78: 51-54.
- Mills, M. S. L. & Dean, W. R. J.** 2007 Notes on Angolan birds: new country records, range extensions and taxonomic questions. *Ostrich* 78: 55-63.
- Milton, S.J., Dean, W.R.J.**, O’Connor, T.G. & Mills, A.J. 2007. Scaling up from site-based research to a national research and monitoring network: lessons from Tierberg Karoo Research Centre and other design considerations. *South African Journal of Science* 103: 311-317.
- Milton, S.J.**, Wilson, J.R.U., Richardson, D.M., **Seymour, C.L.**, **Dean, W.R.J.**, Iponga, D.M. & Procheş, Ş. 2007. Invasive alien plants infiltrate bird-mediated shrub nucleation processes in arid savanna. *Journal of Ecology* 95: 648-661.
- Orians, G.H. & **Milewski, A.V.** 2007. Ecology of Australia: the effects of nutrient-poor soils and intense fires. *Biological Reviews* 82: 393-423.
- Pichegru, L.**, **Ryan, P.G.**, van der Lingen, C.D., Coetzee, J., Ropert-Coudert, Y. & **Grémillet, D.** 2007. Foraging behaviour and energetics of Cape gannets *Morus capensis* feeding on live prey and fishery discards in the Benguela upwelling system. *Marine Ecology Progress Series* 350: 127-136.
- Radford, A.N. & Ridley, A.R.** 2007. Individuals in foraging groups may use vocal cues when assessing their need for anti-predator vigilance. *Biology Letters* 3:249-252.
- Raihani, N.J. & Ridley, A.R.** 2007. Adult vocalizations during provisions: offspring response and postfledging benefits in wild pied babblers. *Animal Behaviour* 74: 1303-1309.
- Raihani, N.J. & Ridley, A.R.** 2007. Variable fledging age according to group size: trade-offs in a cooperatively breeding bird. *Biology Letters* 3: 624-627.
- Ridley, A.R.** 2007. Factors affecting offspring survival and development in a cooperative bird: social, maternal and environmental effects. *Journal of Animal Ecology* 76: 750-760.

- Ridley, A.R.** & Huyvaert, K.P. 2007. Sex-biased preferential care in the cooperatively breeding Arabian babbler. *Journal of Evolutionary Biology* 20: 1271-1276.
- Ridley, A.R., Child, M.F.** & Bell, M.B.V. 2007. Interspecific audience effects on the alarm-calling behaviour of a kleptoparasitic bird. *Biology Letters* 3: 589-591.
- Ridley, A.R. & Raihani, N.J.** 2007. Facultative response to a kleptoparasite by the cooperatively breeding pied babbler. *Behavioral Ecology* 18: 324-330.
- Ridley, A.R. & Raihani, N.J.** 2007. Variable postfledging care in a cooperative bird: causes and consequences. *Behavioral Ecology* 18: 324-330.
- Robinson, T.B., Branch, G.M., Griffiths, C.L., Govender, A. & **Hockey, P.A.R.** 2007. Changes in South African rocky intertidal invertebrate community structure associated with the invasion of the mussel *Mytilus galloprovincialis*. *Marine Ecology Progress Series* 340: 163-171.
- Roxburgh, L.** 2007. The effect of gut processing on seed dispersal quality of mistletoes. *Journal of Tropical Ecology* 23: 377-380.
- Russell, A.F., Langmore, N.E., **Cockburn, A.**, Astheimer, L.B. & Kilner, R.M. 2007. Reduced egg investment can conceal helper effects in cooperatively breeding birds. *Science* 317:941-944.
- Ryan, P.G.** 2007. Diving in shallow water: the foraging ecology of darters (Aves: Anhingidae). *Journal of Avian Biology* 38:507-514.
- Ryan, P.G., Bloomer, P.,** Moloney, C.L., Grant, T.J. & **Delport, W.** 2007. Ecological speciation in South Atlantic island finches. *Science* 315: 1420-1423.
- Ryan, P.G.,** Cuthbert, R. & Cooper, J. 2007. Two-egg clutches among albatrosses. *Emu* 107:210-213.
- Ryan, P.G., Petersen, S.L.,** Simeone, A. & **Grémillet, D.** 2007. Diving behaviour of African penguins: do they differ from other *Spheniscus* penguins? *African Journal of Marine Science* 29: 153-160.
- Ryan, P.G.,** Phillips, R.A., **Nel, D.C.** & Wood, A.G. 2006. Breeding frequency in Grey-headed Albatrosses *Thalassarche chrysostoma*. *Ibis* 149: 45-52.
- Saino, N., Martinelli, R., Biard, C., Gil D., **Spottiswoode, C.N.,** Rubolini, D. Surai, P.F. Møller, A.P. 2007. Maternal immune factors and the evolution of secondary sexual characters. *Behavioral Ecology* 18: 513-520.
- Simmons R.E.,** Baker N., Braby R., Dodman, T., Nasirwa, O., Tyler, S., Versfeld, W., Wearne, W., & Wheeler, M. 2007. The Chestnut-banded Plover is an overlooked globally Near Threatened species. *Bird Conservation International* 17: 273-283.
- Spottiswoode, C.N.,** & Colebrook-Robjent, J.R. 2007. Egg puncturing by the brood parasitic Greater Honeyguide and potential host counter-adaptations. *Behavioral Ecology* 18: 792-799.
- Spottiswoode, C.N.,** Tøttrup, A.P. & Coppack, T. 2006. Sexual selection predicts advancement of avian spring migration in response to climate change. *Proceedings of the Royal Society B* 273: 3023-3029.
- Steinheimer, F.D. & **Dean, W.R.J.** 2007. Avian type specimens and their type localities from Otto Schütt's and Friedrich von Mechow's Angolan collections in the Museum für Naturkunde of the Humboldt-University of Berlin. *Zootaxa* 1387: 1-25.
- Stephen, V.C. & Hockey, P.A.R.** 2007. Evidence for an increasing incidence and severity of Harmful Algal Blooms in the southern Benguela region. *South African Journal of Science* 103: 223-231.
- Taylor, W.A.,** Skinner, J.D. & Krecke, R.C. 2007. Home ranges of sympatric grey rhebok and mountain reedbuck in a South African highveld grassland. *African Zoology* 42:145-151.
- van Oort, H., Otter, K.A., Fort, K.T. and **McDonnell, Z.** 2007. Habitat, dominance, and the phenotypic quality of male Black-capped Chickadees. *Condor* 109: 88-96.

- Voelker, G., Rohwer, S., **Bowie, R.C.K.** & Outlaw, D.C. 2007. Molecular systematics of a speciose, cosmopolitan songbird genus: defining the limits of, and relationships among, the *Turdus* thrushes. *Molecular Phylogenetics and Evolution* 42: 422-434.
- Wanless, R.M., Angel, A.,** Cuthbert, R.J., Hilton, G.M. and **Ryan, P.G.** 2007. Can predation by invasive mice drive seabird extinctions? *Biology Letters* 3: 241-244.
- Wanless, R.M.** & Wilson, J.W. 2007. Predatory behaviour of the Gough Moorhen *Gallinula comeri*: conservation implications. *Ardea* 95: 311-315.

Books and Chapters in Books

- Aronson, J., **Milton, S.J.** & Blignaut, J.N. 2007. Restoring natural capital: definitions and rationale. In Aronson, J., Milton, S.J. & Blignaut, J.N. (eds) Restoring natural capital: science, business, and practice. Washington D.C., Island Press, pp. 3-8.
- Bester, M. & **Ryan, P.G.** 2007. Mammals. In P.G. Ryan (ed.), Field guide to the animals and plants of Tristan da Cunha and Gough Island, Pisces Publications, Newbury for the Tristan Island Government, pp. 98-109
- Dean, W.R.J.** & Roche, C.J. 2007. Setting appropriate restoration targets for changed ecosystems in the semiarid Karoo, South Africa. In Aronson, J., Milton, S.J. & Blignaut, J.N. (eds) Restoring natural capital: science, business, and practice. Washington D.C., Island Press, pp. 57-63.
- Glass, J. & **Ryan, P.G.** 2007. Visiting Tristan. In P.G. Ryan (ed.), Field guide to the animals and plants of Tristan da Cunha and Gough Island, Pisces Publications, Newbury for the Tristan Island Government, pp. 146-149.
- Mills, A.J., **Turpie, J.K.,** Cowling, R.M., Marais, C., Kerley, G.I.H., Lechmere-Oertel, R.G., Sigwela, A.M. & Powell, M. 2007. Assessing costs, benefits, and feasibility of restoring natural capital in subtropical thicket in South Africa. In Aronson, J., Milton, S.J. & Blignaut, J.N. (eds) Restoring natural capital: science, business, and practice. Washington D.C., Island Press, 179-187.
- Milton, S.J.,** Aronson, J. & Blignaut, J.N. 2007. Restoring toward a better future. In Aronson, J., Milton, S.J. & Blignaut, J.N. (eds) Restoring natural capital: science, business, and practice. Washington D.C., Island Press, 313-317.
- Ryan, P.G.** (ed.), Field guide to the animals and plants of Tristan da Cunha and Gough Island, Pisces Publications, Newbury for the Tristan Island Government.
- Ryan, P.G.** & Glass, J. 2007. The island setting. In P.G. Ryan (ed.), Field guide to the animals and plants of Tristan da Cunha and Gough Island, Pisces Publications, Newbury for the Tristan Island Government, pp. 1-13.
- Ryan, P.G.** 2007. Birds. In P.G. Ryan (ed.), Field guide to the animals and plants of Tristan da Cunha and Gough Island, Pisces Publications, Newbury for the Tristan Island Government, pp. 60-97.
- Simmons R.E.** & Brown C.J. 2007. Birds to watch in Namibia: red, rare and endemic species. National Biodiversity Programme, Windhoek, 150 pages.

Papers in Unrated Journals and Book Reviews (13)

- Brown, M. and **Sandwith, M.** 2007. Book review: Handbook of the birds of the world Volume 10: Cuckoo-shrikes to Thrushes: Edited by Josep del Hoyo, Andrew Elliott and David Christie. *Ostrich* 78: 111-112.
- Cooper J., **Ryan P.G.,** & Glass J.P. 2006. Eradicating invasive species in the United Kingdom Overseas Territory of Tristan da Cunha. *Aliens* 23: 1,3.
- Dean, W.R.J.** 2007. Book review: The birds of São Tomé and Príncipe with Annobón by Peter Jones and Alan Tye. *Ostrich* 78: 109.

- Dean, W.R.J.** 2007. Type specimens of birds (Aves) in the Transvaal Museum collection. *Annals of the Transvaal Museum* 44: 67-121.
- Lauret-Stepler, M.**, Bourjea, J., Roos, D., Pelletier, D., **Ryan, P.G.**, Ciccione, S. & Grizel, H. 2007. Reproductive seasonality and trend of *Chelonia mydas* in the SW Indian Ocean: a 20 yr study based on track counts. *Endangered Species Research* 3: 217-227.
- Mills, M.S.L.** 2007. Swierstra's Francolin *Francolinus swierstrai*: a bibliography and summary of specimens. *Bulletin of the African Bird Club* 14: 175-180.
- Mills, M.S.L.**, Caddick, J., Coetzer, I., Hoff, R., Myers, D., Reynolds, D., Walton, A. & Walton, R. 2007. First host species record for Yellow-throated Cuckoo (*Chrysococcyx flavigularis*). *Bulletin of the African Bird Club* 14: 68-69.
- Mills, M.S.L.** & Dowd, A.D. 2007. First records of Lemon Dove *Aplopelia larvata* for Angola. *Bulletin of the African Bird Club* 14: 77-78.
- Mills, M.S.L.**, Caddick, J., Hoff, R., Myers, D. & Coetzer, I. 2007. First record of Common Sand Martin *Riparia riparia* for São Tomé and Príncipe. *Bulletin of the African Bird Club* 14:207.
- Owino, A.O. & Ryan, P.G.** 2007. Recent papyrus swamp habitat loss and conservation implications in western Kenya. *Wetlands Ecology and Management* 15:1-12.
- Roxburgh, L.** 2007. Book Review: Important bird areas in Zambia by Peter Leonard. *Ostrich*. 78: 113.
- Simmons R.E., & Barnard P.E.** 2007. Breeding Booted Eagles at Brukkaros, Namibia? *Gabar* 18:9-15.
- Simmons R.E., & Jenkins A.R.** 2007. Is climate change responsible for the demise of the Cape Vulture and Bearded Vulture in southern Africa. *Vulture News* 56: 41-51.

Technical Reports (8)

- Basson, J., **Petersen, S.L.**, Duarte, A. & Nel, D.C. 2007. The impact of longline fisheries on pelagic and demersal sharks in the Benguela Current Large Marine Ecosystem. In **Petersen, S.L.**, Nel, D. & Omardien, A. (eds), Towards an ecosystem approach to longline fisheries in the Benguela: an assessment of impacts on seabirds, sea turtles and sharks. Die Boord, South Africa, WWF-SA. WWF South Africa Report Series – 2007/Marine/001:49-67.
- Crawford R.J.M., Dyer B.M., Kemper J., **Simmons R.E.**, Upfold L., & vaz Velho F. 2007. Trends in numbers of Cape Cormorants (*Phalacrocorax capensis*) over a 50 year period, 1956/57-2006/07. In: Kirkman SP (ed.) 2007. Final Report of BCLME (Benguela Current Large Marine Ecosystem) Project on Top Predators as Biological Indicators of Ecosystem Change in the BCLME. Avian Demography Unit, Cape Town (381p): 165-172.
- Honig, M.B., Petersen, S.L.** & Duarte, A. 2007. The impact of pelagic longline fisheries on sea turtles in the Benguela Current Large Marine Ecosystem. In **Petersen, S.L.**, Nel, D. & Omardien, A. (eds), Towards an ecosystem approach to longline fisheries in the Benguela: an assessment of impacts on seabirds, sea turtles and sharks. Die Boord, South Africa, WWF-SA. WWF South Africa Report Series – 2007/Marine/001:32-48.
- Petersen, S.L.** 2007. Development of mitigation measures to reduce seabird mortality in longline fisheries in the Benguela Current Large Marine Ecosystem. In **Petersen, S.L.**, Nel, D. & Omardien, A. (eds), Towards an ecosystem approach to longline fisheries in the Benguela: an assessment of impacts on seabirds, sea turtles and sharks. Die Boord, South Africa, WWF-SA. WWF South Africa Report Series – 2007/Marine/001:68-79.

- Petersen, S.L., Honig, M.B. & Nel, D.C.** 2007. The impact of longline fisheries on seabirds in the Benguela Current Large Marine Ecosystem. In **Petersen, S.L., Nel, D. & Ouardien, A.** (eds), Towards an ecosystem approach to longline fisheries in the Benguela: an assessment of impacts on seabirds, sea turtles and sharks. Die Boord, South Africa, WWF-SA. WWF South Africa Report Series – 2007/Marine/001:9-31.
- Petersen, S.L., Nel, D.C. & Currie, H.** 2007. Reducing vulnerable bycatch in longline fisheries operating in the Benguela Current Large Marine Ecosystem: implications for policy, management and research. In **Petersen, S.L., Nel, D. & Ouardien, A.** (eds), Towards an ecosystem approach to longline fisheries in the Benguela: an assessment of impacts on seabirds, sea turtles and sharks. Die Boord, South Africa, WWF-SA. WWF South Africa Report Series – 2007/Marine/001:80-94.
- Petersen, S., Nel, D. & Ouardien, A.** (eds) 2007. Towards an ecosystem approach to longline fisheries in the Benguela: an assessment of impacts on seabirds, sea turtles and sharks. Die Boord, South Africa, WWF-SA. WWF South Africa Report Series – 2007/Marine/001.
- Sandwith, M.** 2007. Publications by C.J. Skead. Ostrich 78:vii-x.

Conference abstracts

- Daniels, F., Rebelo, A.G., & Raimondo, D.** 2007. SA Association of Botanists' Annual Meeting Abstract: How many species of conservation concern will be conserved if we conserve threatened ecosystems? *South African Journal of Botany* 73: 284.

Semi-popular articles/books (50)

- Compion, S. & **Hockey, P.** 2007. The secret life of Snipes. *Africa Birds & Birding* 12(1):40-46.
- Curtis, O. & Koeslag, A.** 2007. A confusion of buzzards: mystery surrounds buzzards breeding in the Western Cape. *Africa Birds & Birding* 12(3):48-50.
- Goren, M.** 2007. Longline lanner. *Africa Birds & Birding* 12(2):18.
- Hockey, P.** 2007. Jaws of life: the forms and functions of beaks. *Africa Birds & Birding* 12(2):54-61.
- Hockey, P.** 2007. Water wings. *Wild, Winter* 2007:64-66.
- Hockey, P.** 2007. Plain birds. *Wild, Summer* 2007:66-68.
- Hockey, P.** 2007. Who's your daddy? Mating strategies in birds. *Africa Birds & Birding* 12(6):32-39.
- Hockey, P.** 2007. The birding year. *Africa Birds & Birding* 12(6):42-43.
- Hockey, P. & Skerrett, A.** 2007. Indian Ocean Islands – Seychelles & Réunion: Idyllic endemics, Seychelles. *Africa Birds & Birding* 12(2):34-43.
- Jenkins, A.** 2007. Is there a viable population of Taita Falcons on the South African eastern escarpment? *Vision: people and conservation in Africa* 2:62-65.
- Jenkins, A.** 2007. Going belly up: Raptor biologist Andrew Jenkins comments. *Africa Birds & Birding* 12(3):8.
- Jenkins, A.** 2007. Spirited support: the Breede River Fish-Eagle Project. *Africa Birds & Birding* 12(3):14.
- Jenkins, A.** 2007. Raptors & their researchers. *Africa Birds & Birding* 12(3):30-31.
- Jenkins, A.** 2007. On the trail of the Taita. *Africa Birds & Birding* 12(3):35-37.
- Jenkins, A.** 2007. Rough & tumble. *Africa Birds & Birding* 12(5):12-13.
- Jenkins, A.** 2007. Birding briefs: touch and go. *Africa Birds & Birding* 12(6):10-11.
- Jenkins, A.** 2007. Wing bling: keeping track of raptors. *Africa Birds & Birding* 12(6):45-49.

- McKechnie, A.** 2007. Birding briefs: Muscling in – lessons from Red Knot. *Africa Birds & Birding* 12(1):13.
- McKechnie, A.** 2007. Some like it hot: Africa's desert birds. *Africa Birds & Birding* 12(4):36-41.
- McKechnie, A.** 2007. Fly-by-night. *Africa Birds & Birding* 12(5):16.
- McKechnie, A.** 2007. Stress, hormones and conservation. *Africa Birds & Birding* 12(6):15.
- Milewski, A.** 2007. A botanist abroad. Antoni Milewski looks at euphorbias in Asia and Africa. *Veld and Flora* 93:113.
- PFIAO** 2007. Scratch my back and maybe I'll scratch yours. *Africa Birds & Birding* 12(1):22.
- PFIAO** 2007. The cost of reproduction in Albatrosses. *Africa Birds & Birding* 12(2):20.
- PFIAO** 2007. The Fitztitute gets its ducks in a row. *Africa Birds & Birding* 12(3):22.
- PFIAO** 2007. Seabirds and failing food supplies. *Africa Birds & Birding* 12(4):21.
- PFIAO.** 2007. Beyond feeding frenzies: birds & termites. *Africa Birds & Birding* 12(5):19.
- PFIAO.** 2007. Fitztitute Director moves to WWF. *Africa Birds and Birding* 12(6):61.
- Ridley, M. and Raihani, N.** 2007. Artful dodgers: the social dynamics of need and greed. *Africa Birds & Birding* 12(5):56-59.
- Roxburgh, L.** 2006. ZOS's Important Bird Areas Programme: Species, Sites, People and Conservation. *Black Lechwe.* 14: 22-24.
- Roxburgh, L.** 2007. The first Microlight Shoebill Survey. *Birdlife International Africa Partnership E-bulletin.* 11: 4.
- Ryan, P.** 2007. Mix & match: Dr Peter Ryan comments. *Africa Birds & Birding* 12(3):8.
- Ryan, P.** 2007. Going, going, gannet: tough times for Benguela seabirds. *Africa Birds & Birding* 12(1):30-35.
- Ryan, P.** 2007. Calls of Sentinel Rock Thrush. *Promerops* 269:16.
- Ryan, P.** 2007. Viewfinder: Rufous-naped Lark. *Africa Birds & Birding* 12(4):61.
- Ryan, P.** 2007. In the family way. *Notiomystidae: another new family.* *Africa Birds & Birding* 12(4):14.
- Ryan, P.** 2007. Algal slime threatens Wrybill. *Africa Birds & Birding* 12(4):15.
- Ryan, P.** 2007. The North/South divide: penguin split adds another species to the African list. *Africa Birds & Birding* 12(2):14.
- Ryan, P.** 2007. Seen and heard: Canon 10x42 L IS WP binoculars. *Africa Birds & Birding* 12(2):62.
- Ryan, P.** 2007 Bird of the Year 2007: African Penguin – Poster. *Africa Birds & Birding* 12(2).
- Ryan, P.** 2007. Indian Ocean Islands – Seychelles & Réunion: Mountains in the Sky, La Réunion. *Africa Birds & Birding* 12(2):44-49.
- Ryan, P.** 2007. Under siege: west coast gannets. *African Wildlife* 61:38-40.
- Ryan, P.** 2007. Book review: *Pipits of southern Africa* by Faansie Peacock. *Africa Birds & Birding* 12(6):18-19.
- Ryan, P.** 2007. Best buy: spotting scopes. *Africa Birds & Birding* 12(6):55-59.
- Simmons, R., Rodrigues, L., Woodcock, L., Steyn, P. & Jenkins, A.** 2007. City's limits: can Verreaux's Eagles survive urbanisation? *Africa Birds & Birding* 12(3):42-46.
- Simmons, R. & Anderson, M.D.** 2007. Down & dirty: vulture research in East Africa. *Africa Birds & Birding* 12(3):52-57.
- Wanless, R.** 2007. On the shelf: *Birds of Northern South America: an identification guide* by R. Restall, C. Rodner & M. Lentino published by Helm Field Guides. *Africa Birds & Birding* 12(3):16.
- Wanless, R. & Angel, A.** 2007. Invaders of the last Ark: Gough Island. *African Birds and Birding* 12(4):55-59.

- Watkins, B., Exley, P. & Ryan, P.** 2007. Keeping our seabirds safe in trawl fisheries: how to prevent drownings and collisions. Practical solutions for the fishing industry. Cape Town, Albatross Task Force, Marine Programme, BirdLife South Africa. 4 pp.
- Watkins, B., Exley, P. & Ryan, P.** 2007. Om in die trawlbedryf ons seevoëls te beskerm: hoe om op vistreilers verdrinkings en botsings te voorkom. Praktiese oplossings vir die visvangindustrie. Cape Town, Albatross Task Force, Marine Programme, BirdLife South Africa. 4 pp.

Appendix 2: Breakdown of publication outputs since 2004 by individual members of the CoE – publications are listed as: first-authored (1st) or co-authored (2nd) papers in SCI-rated journals; papers in unrated journals (unrated); and semi-popular (popular).

Name	Degree	1st year	Depart year	Gender	Race	Publications			
						1 st	2 nd	unrated	popular
Mandiwana	Staff/PhD	2004		F	B	1	1		
O’Ryan	Staff	2006		F	B		1		
Bloomer	Staff	2004		F	W		4		1
Milton	Staff	2004	2007	F	W	3	6	9	1
Turpie	Staff	2004		F	W	1	1	2	
Bowie	Staff	2004	2007	M	W	5	12		1
Crowe	Staff	2004		M	W	2	15		2
Cumming	Staff	2006		M	W	4	2	1	
Dean	Staff	2004	2007	M	W	5	11	17	1
Du Plessis	Staff	2004	2007	M	W	2	12		14
Hockey	Staff	2004		M	W		7	3	16
Lloyd	Staff	2004		M	W	7	7		1
McKechnie	Staff	2004		M	W	4			9
Ryan	Staff	2004		M	W	10	22	9	41
Covas	Postdoc	2004	2006	F	W	5	3		
Eising	Postdoc	2005		F	W				
Ridley	Postdoc	2005		F	W	5	4		3
Roxburgh	Postdoc	2005	2007	F	W	2		1	2
Spottiswoode	Postdoc	2005		F	W	4	2	1	2
Bruinzeel	Postdoc	2007		M	W				
Delport	Postdoc	2005	2007	M	W	3	2		1
Fuchs	Postdoc	2007		M	W				
Johannson	Postdoc	2005		M	W	1	3		
Radford	Postdoc	2004	2006	M	W	9	2		1
Taylor	Postdoc	2005	2007	M	W	2			
Chaskda	PhD	2007		M	B				
Kaliba	PhD	2007		M	B				
De Ponte	PhD	2003		F	W				
Hermann	PhD	2004		F	W				
Jones	PhD	2007		F	W				
Nelson	PhD	2005		F	W				
Petersen	PhD	2004		F	W	1	2	8	1
Raihani	PhD	2004		F	W	2	2		1
Seymour	PhD	1999	2006	F	W		1		
Techow	PhD	2002	2007	F	W				
Barnes	PhD	1998	2007	M	W				
Cohen	PhD	1999		M	W		2	1	9
Little	PhD	2007		M	W				
Loewenthal	PhD	1998		M	W				
Mills	PhD	2007		M	W	6	2	4	5
Oatley	PhD	2005		M	W		1		
Wanless	PhD	2004	2007	M	W	2	1	1	4
Ndlovu	MSc	2007		M	B				
Curtis	MSc	2003	2005	F	W	2		1	4
Parker	MSc	2003	2006	F	W				
Lannas	MSc	2007		F	W				
Biggs	MSc	2004	2006	M	W				2

Vincent	MSc	2005		M	W	
Smit	MSc	2007		M	W	
Daniels	MSc CB	2006	2007	F	B	
Wistebaar	MSc CB	2007		F	B	
Boundja	MSc CB	2006	2007	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	2007	M	B	
Osano	MSc CB	2004	2005	M	B	
Owino	MSc CB	2004	2005	M	B	1
Raharinjanahary	MSc CB	2006	2007	M	B	
Rahlao	MSc CB	2004	2005	M	B	
Soka	MSc CB	2004	2005	M	B	
Suinyuy	MSc CB	2005	2006	M	B	
Babiker	MSc CB	2007		M	B	
Chaudhry	MSc CB	2007		M	B	
Baudains	MSc CB	2005	2006	F	W	1
Da Silva	MSc CB	2004	2005	F	W	
Farmer	MSc CB	2004	2005	F	W	1
Fox	MSc CB	2005	2006	F	W	1
Gordon	MSc CB	2006	2007	F	W	
Hempson	MSc CB	2007		F	W	
Hill	MSc CB	2006	2007	F	W	
Humphrey	MSc CB	2007		F	W	
Jenkins	MSc CB	2006	2007	F	W	
La Grange	MSc CB	2007		F	W	
Lauret-Stepler	MSc CB	2005	2006	F	W	
Lipsey	MSc CB	2007		F	W	1
MacGregor	MSc CB	2006	2007	F	W	
McDonell	MSc CB	2005	2006	F	W	1
Napier	MSc CB	2004	2005	F	W	
Nupen	MSc CB	2006	2007	F	W	
Okes	MSc CB	2007		F	W	
Owen	MSc CB	2004	2005	F	W	
Schultz	MSc CB	2006	2007	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	2007	F	W	1
Vickers	MSc CB	2005	2006	F	W	
Bird	MSc CB	2006	2007	M	W	
Burnside	MSc CB	2006	2007	M	W	
Child	MSc CB	2007		M	W	2
Joseph	MSc CB	2007		M	W	
Little	MSc CB	2004	2005	M	W	1
Lowe	MSc CB	2004	2005	M	W	
Mader	MSc CB	2004	2005	M	W	
Mann	MSc CB	2007		M	W	
Puttick	MSc CB	2007		M	W	
Scovronick	MSc CB	2005	2006	M	W	
Shelton	MSc CB	2006	2007	M	W	
Earlier students						23 14 3 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	Citizenship	Gender	Race	Degree	Year 1 st reg.	Year grad.	Months to 1 st job	First position // current position if different
Dr	Seymour	SA	F	W	PhD	1999	2006		Ecologist, SANBI
Ms	Techow	German	F	W	PhD	2004	2007		Postdoctoral associate at UCT
Mr	Barnes	SA	M	W	PhD	1998	2007	0	Self-employed in bird-watching tourism industry
Mr	Loewenthal	SA	M	W	PhD	1998	2007		Writing up research papers for publication, UCT
Mr	Wanless	SA	M	W	PhD	2004	2007		Writing up research papers for publication, UCT
Ms	Parker	SA	F	W	MSc	2003	2006	~	Not formally employed – a mother
Mr	Biggs	SA	M	W	MSc	2004	2006	2	Research Officer, CSIRO Sustainable Ecosystem Division, Australia
Ms	Daniels	SA	F	B	MSc CB	2006	2007	7	Threatened Species Research Scientist at SA National Biodiversity Institute
Mr	Boundja	D Rep Congo	M	B	MSc CB	2006	2007	11	Technical Assistant for Wildlife Conservation Society Congo Program (DRC)
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//PhD McGill University
Mr	Owino	Kenya	M	B	MSc CB	2004	2005	0	Research Scientist, National Museums of Kenya // Research Scientist, Kenya Wildlife Service
Mr	Raharinhanahary	Madagascar	M	B	MSc CB	2006	2007		PhD Student, Univ. of Antanarivo, Madagascar
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, Cape Town
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	Gordon	SA	F	W	MSc CB	2006	2007		
Ms	Hill	SA	F	W	MSc CB	2006	2007		
Ms	Jenkins	New Zealand	F	W	MSc CB	2006	2007		
Ms	Lauret-Stepler	Reunion	F	W	MSc CB	2005	2006		
Ms	MacGregor	SA	F	W	MSc CB	2006	2007	8	Veterinary and Research Officer, Island Conservation Society, Seychelles
Ms	McDonell	Canada	F	W	MSc CB	2005	2006		
Ms	Napier	SA	F	W	MSc CB	2004	2005		Environmental Manager, Strategic Environmental Focus
Ms	Nupen	SA	F	W	MSc CB	2006	2007		Short-term contract with SA National Biodiversity Institute
Ms	Owen	UK	F	W	MSc CB	2004	2005	0	Freelance science & natural history writer
Ms	Schultz	Australia	F	W	MSc CB	2006	2007		
Ms	Shine	Ireland	F	W	MSc CB	2005	2006	0	Co-ordinating Scientist, BCLME/BENEFIT
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	Thomas	UK	F	W	MSc CB	2006	2007		
Ms	Vickers	Canada	F	W	MSc CB	2005	2006		
Mr	Bird	SA	M	W	MSc CB	2006	2007		PhD student, UCT
Mr	Burnside	UK	M	W	MSc CB	2006	2007		PhD student, Bath Univ (UK)
Mr	Little	SA	M	W	MSc CB	2004	2005	1	Research assistant, UCT // PhD student at UCT
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		
Mr	Shelton	SA	M	W	MSc CB	2006	2007	8	Temping as Environmental Control Officer

Mr	Bewana	SA	M	B	BSc Hons	2006	2007		MSc student, UCT
Ms	Braae	SA	F	W	BSc Hons	2006	2006		Gap year
Ms	Brown	SA	F	W	BSc Hons	2007	2007		
Ms	Laird	SA	F	W	BSc Hons	2007	2007		
Ms	Lubbe	SA	F	W	BSc Hons	2006	2006		Environmental consultant, Ecopartners
Ms	Lyons	SA	F	W	BSc Hons	2006	2006		
Ms	Okes	SA	F	W	BSc Hons	2006	2006		MSc student, UCT
Ms	Smith	SA	F	W	BSc Hons	2007	2007		
Ms	Stephenson	SA	F	W	BSc Hons	2007	2007		
Ms	Swanepoel	SA	F	W	BSc Hons	2006	2006		
Mr	Ashdown	SA	M	W	BSc Hons	2006	2006		Price Waterhouse Coopers (biofuels, carbon trading, etc)
Mr	Child	SA	M	W	BSc Hons	2006	2006		MSc student, UCT
Mr	Inglethorpe	SA	M	W	BSc Hons	2006	2006		MSc student, UP

Appendix 4: List of students for 2008

Title	Surname	Citizenship	Institution	Gender	Race	Degree	1 st year	CoE funding support level		
								Bursary	Running	Indirect
Ms	Mandiwana	SA	UCT	F	B	PhD	2004	No	Yes	Yes
Mr	Chaskda	Nigeria	UCT	M	B	PhD	2007	No	Yes	Yes
Mr	Kaliba	Malawi	UCT	M	B	PhD	2007	Yes	Yes	Yes
Mr	Lokugalappatti	Sri Lanka	US	M	B	PhD	Aug 2005	No	Yes	Yes
Ms	Barquete	France	UCT	F	W	PhD	2007	No	Yes	Yes
Ms	De Ponte	Portugal	UCT	F	W	PhD	2003	No	No	Yes
Ms	Golabek	UK	Bristol, UK	F	W	PhD	2006	No	No	Yes
Ms	Hermann	SA	UP	F	W	PhD	2004	No	Yes	Yes
Ms	Jones	SA	UCT	F	W	PhD	2007	Yes	Yes	Yes
Ms	Nelson	USA	UCT	F	W	PhD	2005	Yes	Yes	Yes
Ms	Petersen	SA	UCT	F	W	PhD	2004	No	Yes	Yes
Ms	Pichegru	France	U Louis Pasteur	F	W	PhD	Oct 2004	No	No	Yes
Ms	Raihani	UK	Cambridge, UK	F	W	PhD	2004	No	No	Yes
Ms	Ribeiro	Portugal	UCT	F	W	PhD	2007	No	Yes	Yes
Mr	Cohen	SA	UCT	M	W	PhD	1999	No	No	Yes
Mr	Little	SA	UCT	M	W	PhD	2007	Yes	Yes	Yes
Mr	Mills	SA	UCT	M	W	PhD	2007	Yes	Yes	Yes
Mr	Oatley	SA	UCT	M	W	PhD	2005	No	No	Yes
Ms	Ditlhobolo	Botswana	UCT	F	B	MSc	2008			
Ms	Musvuugwa	Zimbabwe	UCT	F	B	MSc	2008			
Ms	Mzumara	Malawi	UCT	F	B	MSc	2008			
Ms	Wistebaar	SA	UCT	F	B	MSc	2007	No	No	Yes
Mr	Babiker	Sudan	UCT	M	B	MSc	2007	No	No	Yes
Mr	Bewana	SA	UCT	M	B	MSc	2008	Yes	Yes	Yes
Mr	Chaudry	Pakistan	UCT	M	B	MSc	2007	No	No	Yes
Mr	Mutumi	Zimbabwe	UCT	M	B	MSc	2008			
Mr	Ndlovu	Zimbabwe	UCT	M	B	MSc	2007	Yes	Yes	Yes

Ms	Cordingley	Kenya	UCT	F	W	MSc	2008			
Ms	Hamann	Germany	UCT	F	W	MSc	2008			
Ms	Hampton	SA	UCT - ADU	F	W	MSc	2005	Yes	No	Yes
Ms	Hempson	SA	UCT	F	W	MSc	2007	No	No	Yes
Ms	Humphrey	SA	UCT	F	W	MSc	2007	Yes	No	Yes
Ms	La Grange	SA	UCT	F	W	MSc	2007	Yes	No	Yes
Ms	Lannas	Zimbabwe	UCT	F	W	MSc	2007	No	No	Yes
Ms	Lipsey	USA	UCT	F	W	MSc	2007	No	No	Yes
Ms	Okes	SA	UCT	F	W	MSc	2007	Yes	Yes	Yes
Ms	Quayle	UK	UCT	F	W	MSc	2008			
Ms	Shaw	UK	UCT	F	W	MSc	2008			
Mr	Child	SA	UCT	M	W	MSc	2007	Yes	Yes	Yes
Mr	Dures	SA	UCT	M	W	MSc	2008			
Mr	Flowers	UK	UCT	M	W	PhD	2007	No	Yes	Yes
Mr	Joseph	SA	UCT	M	W	MSc	2007	Yes	No	Yes
Mr	Mann	SA	UCT	M	W	MSc	2007	No	No	Yes
Mr	Meek	USA	UCT	M	W	MSc	2008			
Mr	Menayas	USA	UCT	M	W	MSc	2008			
Mr	Puttick	SA	UCT	M	W	MSc	2007	No	No	Yes
Mr	Smit	SA	Wits	M	W	MSc	2007	Yes	Yes	Yes
Mr	Vincent	SA	UCT	M	W	MSc	2005	No	No	Yes

Appendix 5: Summary table of CoE members in 2007, with numbers expected for 2008. These figures include students co-supervised by CoE members, but registered at non-collaborating institutions.

Member category	Gender	Race	Number in 2007	Number in 2008
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	1	1
	M	B	3	3
	F	W	10	10
	M	W	7	4
	Total		21	17
MSc	F	B	2	4
	M	B	6	5
	F	W	14	11
	M	W	10	10
	Total		32	30
BSc Honours	M	B	1	
	F	W	4	
	M	W	1	
	Total		6	