



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

**ANNUAL PROGRESS REPORT**

**Reporting Period**

**From: 1 January 2005**

**To: 31 December 2005**

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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	: 22 March 2006

## EXECUTIVE SUMMARY

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

Total NRF funding for 2005	: R 2,255,484*
Funding from Host institution in 2005	: R 240,000**
Funding from other sources for the CoE in 2005	: R 35,159***
Carry forward from 2004	R 1,866,534
Total funding	: R 4,397,177

\*includes investment income

\*\*includes R180,000 not reported on in the audited financial statement

\*\*\*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 35 peer-reviewed papers were published in SCI-ranked journals in 2005, 18 in journals with a rating  $\geq 1.5$ , nine in journals with a rating  $\geq 3.5$ , and three in journals with a rating  $\geq 10$ . With the involvement of 11 postdocs, and several new postgraduate students, we are well positioned for meeting long-term output targets.

#### (ii) Education and Training (Maximum 5 lines)

A total of 52 postgraduate students (29% black and 56% women) were directly or indirectly supported within the CoE in 2005. Fourteen new MSc students joined the CoE in 2005. One PhD and 18 MSc students (including eight black students) graduated, with an average throughput rate of 1.7 years for the MSc students.

#### (iii) Information Brokerage (Maximum 5 lines)

Fifty semi-popular publications, a 15-minute SABC TV programme, and a BBC radio programme were produced to broadcast research findings to the lay public. *Roberts Birds of Southern Africa* was published in August, and the first print run of 10,000 copies sold out within four months. CoE members attended seventeen conferences and workshops.

#### (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

18 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 eight journals, and reviewed at least 70 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 57% representation of women in the postgraduate student body for 2005. 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 under-represented groups is being addressed through three main approaches. The first targets a local secondary school, in an effort to boost the uptake of black students to undergraduate studies in the biological sciences. The second targets undergraduate students at all South African universities, encouraging them to attend a week-long Academy in Biodiversity Conservation. The third offers 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)**

At the end of this 'Storming' stage, the CoE has demonstrated an increasing trend in the quality of its research publications, and is well positioned to meet output targets for the 'Norming' stage. It has a smoothly functioning management system in place, having appointed a Manager, Secretary, and the first Chair in Conservation Biology. 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 18 joint-venture student training initiatives.

# PROGRESS REPORT

## 1. Scientific Research

### *Objective*

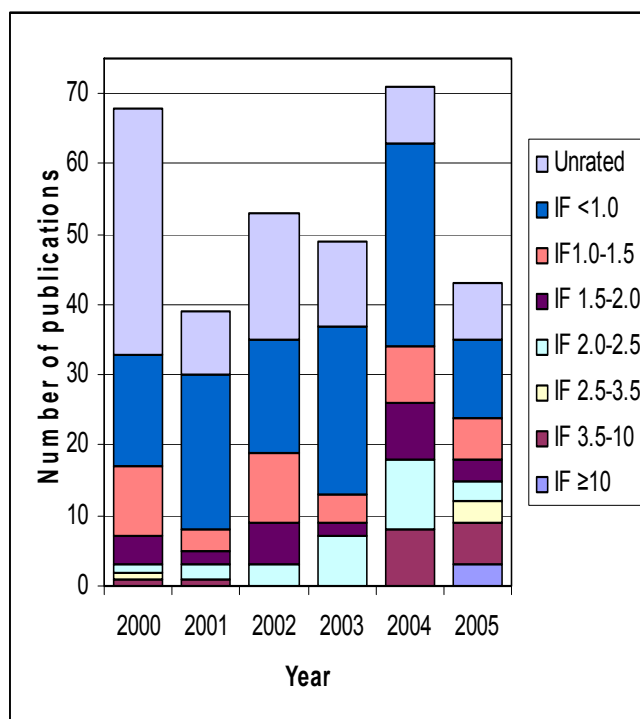
The short-term objective was to publish  $\geq 20$  papers carrying the CoE address in peer-reviewed journals with a SCI impact factor rating  $\geq 1.5$  during 2005. The medium-term goal (through 2006) is to refine and align the research strategy of the CoE to the long-term goal of producing an increasing level of world-class research outputs. To meet this goal, the CoE has a target of publishing an average of  $\geq 1$  paper with an impact rating  $\geq 10$  and  $\geq 5$  papers with an impact rating  $\geq 3.5$  each year during the years 2006-2008.

### *Progress*

A total of 35 papers (carrying the CoE address) were published in SCI-ranked journals during 2005, 18 of which were published in journals with an impact factor rating  $\geq 1.5$  (see Appendix 1 for a full listing). Nine of these papers were published in journals with a rating  $\geq 3.5$ ; three of them in journals with a rating  $\geq 10$  (Figure 1).

The short-term objective was not quite realized, but the CoE is well positioned to realize the long-term goal of producing increasing numbers of papers with impact ratings  $> 3.5$  and  $> 10$ , with a definite increase in the production of papers at these levels since the establishment of the CoE in 2004 (see 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 2005.



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 depends critically on collecting a library of DNA samples (mostly blood samples) from focal taxa over a wide geographic area. To focus the collecting effort, CoE collaborators compiled a wish list of bird taxa for which genetic samples are required from diverse localities across southern Africa. A lengthy process of acquiring the relevant collecting permits and research ethics committee approvals then ensued. Nonetheless, the collecting began in earnest in the second half of 2005, when approximately 3,000 blood, tissue and voucher samples were collected. These samples are feeding into a wide variety of molecular projects that will begin generating publication outputs through 2006. Ulf Johannson, a new postdoc, has made good progress in developing a phylogeny for the Cisticolidae family, comprising 104 mostly African species. The molecular labs also provided collaborative support to several evolutionary ecology projects that require molecular sexing, parentage analyses, and population-genetic analyses.
2. **Evolutionary ecology.** The research focus on life history and cooperative breeding strategies was strengthened through the initiation of several new projects, and the continued maintenance of other long-term projects. Amanda Ridley, a new postdoc, started a new research programme on Pied Babblers in the Kalahari that has attracted a new PhD student. Two further new postdocs, Corine Eising and Andrew Taylor, linked into a long-term field site to examine maternal investment strategies in two species and cooperative breeding in the Karoo Robin respectively. Andrew McKechnie (Wits) started new projects examining (1) the responses of birds to global warming, and (2) the ecology and evolution of torpor in southern African birds.
3. **Maintaining biodiversity.** The first visiting Chair in Conservation Biology, Andrew Balmford (Cambridge) spent a productive few months in the CoE in early 2005, producing seven high quality publications. The new permanent Chair in Conservation Biology, Graeme Cumming was appointed in 2005, but joined the CoE in January 2006. Both the Oystercatcher Conservation programme and Seabird Conservation programme made good progress through 2005. A new postdoc, Lizanne Roxburgh, initiated a study of the conservation biology of the rare endemic Chaplin's Barbet in Zambia. Sue Milton, Jane Turpie and Richard Dean are involved in a new project that aims to quantify the rates and biodiversity costs

of natural habitat transformation in karoo landscapes, understand the functions and value of biodiversity in the region, and provide guidelines for management and restoration. Jane Turpie's Environmental & Resource Economics research programme has been particularly active, integrating ecological, social and economic research on a number of estuarine ecosystems to provide information important for development and conservation planning.

## **2. Education and Training**

### ***Objective***

The short-term objective was for the CoE to support  $\geq 15$  MSc and PhD students and 4-5 postdoctoral associates during 2005. A medium- to long-term objective is to improve student support activities through regular meetings, discussion groups, and direct mentoring, to generate a vibrant research environment that instils a rigorous hypothetico-deductive approach to problem solving. With respect to equity issues, a long-term objective is to develop over the next 5-10 years at least three senior academics or active conservation biologists from formerly disadvantaged groups.

### ***Progress***

Twelve PhD and 40 MSc students were supported directly or indirectly within the CoE during 2005. Fifteen (29%) of these students were black, and 29 (56%) were women. Fourteen new MSc (3 dissertation, 11 Conservation Biology) students and six new postdocs joined the CoE in 2005. One PhD and 18 MSc students graduated in 2005, with an average throughput rate of 1.7 years for the MSc students. Eight of the MSc graduates were black students, from the following countries: South Africa (1); Lesotho (1); Kenya (2); Uganda (2); Eritrea (1); Canada (1).

Two postgraduate student discussion fora are now held on a weekly basis: (1) a Research Discussion Group that provides a forum for students and staff to critique research proposals, draft manuscripts and presentations, and exchange ideas for problem solving; and (2) a Conservation Biology Journal Club that focuses on discussing broader conservation issues. Four students benefited from CoE support to attend international conferences and workshops. Mao Angua presented a paper at the 19<sup>th</sup> Annual Meeting of the Society for Conservation Biology (Brazil). Tshifhiwa Mandiwana attended the All-bird DNA Barcoding workshop at

Harvard University (USA). Lucille Hermann attended a training workshop on Molecular Evolution at Woods Hole (USA). Zach Vincent attended an Albatross Demography workshop at Harvard University (USA).

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 have adopted three main approaches. First, we made contact with the LEAP Maths and Science school, which attracts eighty learners in grades 9-12 from participating public schools in Langa for focussed teaching in maths, science and biology subjects. We have made our staff and students available for invited teaching assignments in biology, field outings, and talks to the school's very active bird club. Their first field outing in 2005 was to Koeberg Nature Reserve, where they learned how to net, handle and ring birds for an ecological study. Second, we established and advertised for the first DST/NRF Academy in Biodiversity Conservation for undergraduate students, a joint initiative between our CoE and the Centre for Invasion Biology. We selected a total of 15 students, including seven black students, for the first Academy that was held with great success in mid-January 2006. One black student from Walter Sisulu University has since joined our CoE as an intern studying towards a BSc Hons at UCT. As part of our third approach for attracting top postgraduate students, we now advertise a number of highly competitive bursaries at B.Sc. Hons., M.Sc. and Ph.D. levels, together with project running expenses.

### **3. Information Brokerage**

#### ***Objective***

Medium-term objectives (2005-2006) were 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 semi-technical nature. A short-term objective was to produce  $\geq 12$  such articles in semi-popular magazines and newspapers through 2005. Furthermore, CoE team members were expected to attend  $\geq 6$  conferences during 2005.

#### ***Progress***

All the objectives for 2005 were met. A total of 50 semi-popular publications were produced during the review period. (see Appendix 1 for a complete listing). The most substantial of these was the 7<sup>th</sup> edition of *Roberts Birds of Southern Africa*, published in August 2005 as a comprehensively revised, 1,300-page handbook to the birds of the region. The demand for this massive volume exceeded the publisher's expectations, and the first print run of 10,000 copies sold out within four months. A second print run is now on its way. Work was subsequently started on developing a life-history database for the birds of southern Africa based on the Roberts VII text. This database, now half complete, will help to highlight remaining gaps in our knowledge, and will be continuously updated as new information is published. In addition, Richard Dean has been instrumental in developing a database containing almost 200,000 georeferenced bird specimen records from museums.

CoE members fielded a number of media interviews, particularly Phil Hockey during the launch of *Roberts*. Zach Vincent was involved in producing a 15-minute television programme for 50/50 (SABC) on golf course developments in the southern Cape. The Pied Babbler research project was featured on BBC Radio 4 in the "Rules of Life" programme.

CoE members attended 12 international and five local conferences and workshops, and were involved in hosting or helping to convene four of these (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 18 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, 2 students) and Rauri Bowie (US, 3 students). These laboratories also performed



analyses for a further four UCT-based ecological research projects. In turn, the collecting effort co-ordinated by UCT researchers has been invaluable in providing samples critical for research projects at the collaborating institutions. Two further students have made use of the laboratories of CoE collaborators Colleen O'Ryan (Molecular Biology, UCT) and Terry Hedderson (Botany, UCT). Ten Conservation Biology MSc students benefitted from supervisors or co-supervisors loosely affiliated with the CoE.

A wide range of close collaborative working relationships with scientific peers now exist both nationally and internationally (see list of collaborators below). 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. Postgraduate students and postdocs from Prof Nick Davies's group (Cambridge) continue to be involved in research projects at CoE study sites in South Africa.

The CoE has reaffirmed or developed new links with the SA National Biodiversity Institute (SANBI), Western Cape Nature Conservation Board, SA National Parks, WWF-SA, BirdLife SA, Fauna & Flora International, Conservation International, the Endangered Wildlife Trust, and TRAFFIC.

The CoE has continued to build much-needed African capacity in the broad area of biodiversity conservation, with the graduation of six African students from the 2004/2005 MSc programme in Conservation Biology. This has contributed to the New Partnership for Africa's Development (NEPAD) vision of building internationally-competitive capacity among Africans for sustainable development.

## **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*

Flowing from the formal links established with a wide range of conservation agencies (as outlined under Networking), CoE members continued to advise conservation organizations and government departments. The following illustrate the types of activities that CoE members were involved in.

**BirdLife and WWF Responsible Fisheries Programme:-** PhD student Samantha Petersen manages this programme, and was very involved in developing educational materials and running education and training programmes for law-enforcement officers, skippers and other interested parties in the fishing industry. She continues to assess the impacts of a suite of long-line fisheries on seabirds, turtles and sharks, and test mitigation measures to reduce bycatch.

**Payments for ecosystem services:-** Jane Turpie conducted an analysis of the Working for Water programme as an international model for achieving payments for ecosystem services. She also helped develop a potential institutional model for establishing a similar model for the Maluti-Drakensberg Transfrontier Conservation Area.

**Developing an integrated conservation plan for estuaries of the Cape Floristic Region:-** Jane Turpie is involved in a project that aims to collate and augment biodiversity data for the approximately 65 estuaries of the CFR, collect new data concerning their economic values, and to develop a conservation plan for estuaries that accounts for economic values and opportunity costs.

**Monitoring and training programme for managing sandgrouse for commercial hunting:-** As a follow-on to an initial assessment (in 2004) of the feasibility of gamebird hunting in community-run conservancies in north-eastern Kenya, Penn Lloyd spent a further 10 days in this remote communal rangeland area designing a monitoring programme for long-term management and training six community scouts to census sandgrouse populations, monitor their breeding condition, and record hunting effort.

CoE members serve on the editorial boards of eight scientific journals, including Biological Conservation, Journal of Applied Ecology, Systematic Biology, 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 70 papers for peer-reviewed international and local journals during 2005.

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, the Interim Research Committee of the NRF's National Zoological Gardens, and the Steering Committee of SAFRING. He is also a Trustee to WWF-SA, as a member of its Conservation Committee, Chairman of the NRF's Funding Panel for the Focus Area on 'Inland Ecosystems & Biodiversity', and is Vice-president of the Board of Governors of the Africa Section of the Society for Conservation Biology. 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. Peter Ryan is Secretary of the Gough Island Nature Reserve Advisory Committee, and Tristan da Cunha Conservation Officer. 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.

## **6. Gender impact 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, 58% of postgraduate students supported by the CoE in 2005 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.

## HUMAN RESOURCES

Please report on the people who 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	15
Dr	Bowie	South Africa	Stellenbosch	M	W	45
Prof.	Crowe	South Africa	UCT	M	W	100
Dr	Dean	South Africa	UCT	M	W	90
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	N Flagship Inst.	F	B	65
Prof.	Milton	South Africa	UCT	F	W	8
Dr	Ryan	South Africa	UCT	M	W	100
Dr	Turpie	South Africa	UCT	F	W	50

### 2. Research Associates

Title	Surname	Citizenship	Institution	Gender	Race	% time spent working in CoE
Dr	Barnard	UK	UCT	F	W	1
Dr	Jenkins	South Africa	UCT	M	W	30
Dr	Kemp	South Africa	UCT	M	W	1
Dr	Milewski	Australia	UCT	M	W	1
Dr	Simmons	UK	UCT	M	W	50

### 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	60	Yes	Yes	Yes
Dr	Ridley	New Zealand	UCT	F	W	100	Yes	Yes	Yes
Dr	Delpont	South Africa	U Pretoria	M	W	20	Yes	Yes	Yes
Dr	Johannson	Sweden	U Stellenbosch	M	W	100	Yes	Yes	Yes
Dr	Covas	Portugal	Edinburgh	F	W	20	No	Yes	Yes
Dr	Spottiswoode	South Africa	Cambridge	F	W	10	No	Yes	Yes
Dr	Taylor	UK	UCT	M	W	40	No	Yes	Yes
Dr	Roxburgh	South Africa	UCT	F	W	80	No	No	Yes
Dr	Radford	UK	Cambridge	M	W	20	No	No	Yes

### 4. Students

Title	Surname	Citizen-ship	Institution	Gender	Race	Degree	Year of 1 <sup>st</sup> registr.	Throughput (years)	Status	CoE funding support level		
										Bursary	Running	Indirect
Ms	Spottiswoode	SA	Cambridge	F	W	PhD	2003	3	Graduated	No	No	Yes
Ms	Curtis	SA	UCT	F	W	MSc	2003	2	Graduated	Yes	No	Yes
Ms	Spear	SA	UCT	F	W	MSc	2004	1.5	Graduated	Yes	Yes	Yes
Ms	Rao	Canada	U New Foundland	F	B	MSc	2003	2	Graduated	No	Yes	Yes
Ms	Lawrence	SA	UCT	F	B	MSc	2003	2	Graduated	No	No	Yes
Mr	Mao	Uganda	UCT	M	B	MSc	2004	1.5	Graduated	No	Yes	Yes
Mr	Osano	Kenya	UCT	M	B	MSc	2004	1.5	Graduated	No	No	Yes
Mr	Owino	Kenya	UCT	M	B	MSc	2004	1.5	Graduated	No	No	Yes
Mr	Rahlao	Lesotho	UCT	M	B	MSc	2004	1.5	Graduated	No	No	Yes
Mr	Soka	Uganda	UCT	M	B	MSc	2004	1.5	Graduated	No	No	Yes
Mr	Kahsai	Eritrea	US	M	B	MSc	2004	2	Graduated	No	No	Yes
Ms	Da Silva	USA	UCT	F	W	MSc	2004	1.5	Graduated	No	No	Yes

Ms	Farmer	UK	UCT	F	W	MSc	2004	1.5	Graduated	No	No	Yes
Ms	Napier	SA	UCT	F	W	MSc	2004	1.5	Graduated	No	No	Yes
Mr	Owen	Kenya	UCT	F	W	MSc	2004	1.5	Graduated	No	No	Yes
Ms	Thomasset	France	U Paris	F	W	MSc	2004	2	Graduated	No	No	Yes
Mr	Little	SA	UCT	M	W	MSc	2004	1.5	Graduated	No	No	Yes
Mr	Lowe	UK	UCT	M	W	MSc	2004	1.5	Graduated	No	No	Yes
Mr	Mader	SA	UCT	M	W	MSc	2004	1.5	Graduated	No	No	Yes
Mr	Van Alphen-Stahl	SA	UCT - SBS	M	W	MSc	2004	2	Graduated	No	No	Yes
Mr	Loewenthal	SA	UCT	M	W	PhD			Incomplete	Yes	No	Yes
Ms	Mandiwana	SA	UCT	F	B	PhD			Incomplete	No	Yes	Yes
Ms	Hermann	SA	UP	F	W	PhD			Incomplete	No	Yes	Yes
Ms	Techow	SA	UCT	F	W	PhD			Incomplete	No	Yes	Yes
Ms	De Ponte	Portugal	UCT	F	W	PhD			Incomplete	No	No	Yes
Ms	Raihani	UK	Cambridge	F	W	PhD			Incomplete	No	No	Yes
Ms	Seymour	SA	UCT	F	W	PhD			Incomplete	No	No	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	2004		Incomplete	No	No	Yes
Mr	Wanless	SA	UCT	M	W	PhD			Incomplete	No	No	Yes
Mr	Maswime	SA	UCT	M	B	MSc			Incomplete	Yes	Yes	Yes
Ms	Baudains	SA	UCT	F	W	MSc			Incomplete	Yes	Yes	Yes
Mr	Vincent	SA	UCT	M	W	MSc			Incomplete	Yes	Yes	Yes
Ms	Fox	SA	UCT	F	W	MSc			Incomplete	Yes	No	Yes
Ms	Stephen	SA	UCT	F	W	MSc			Incomplete	Yes	No	Yes
Mr	Biggs	SA	UCT	M	W	MSc			Incomplete	Yes	No	Yes
Mr	Kaliba	Malawi	UCT	M	B	MSc			Incomplete	No	Yes	Yes
Ms	Petersen	SA	UCT	F	W	MSc			Incomplete	No	Yes	Yes
Mr	Oatley	SA	UCT	M	W	MSc			Incomplete	No	Yes	Yes
Ms	Nzuzi	Angola	UCT	F	B	MSc			Incomplete	No	No	Yes
Ms	Seoraj	SA	UKZN	F	B	MSc	2002		Incomplete	No	No	Yes

Mr	Dundee	Namibia	UCT - AMS	M	B	MSc	2004		Incomplete	No	No	Yes
Mr	Suinyuy	Cameroon	UCT	M	B	MSc			Incomplete	No	No	Yes
Ms	Hampton	SA	UCT - ADU	F	W	MSc	2005		Incomplete	No	No	Yes
Ms	Lauret- Stepler	Reunion	UCT	F	W	MSc			Incomplete	No	No	Yes
Ms	McDonell	Canada	UCT	F	W	MSc			Incomplete	No	No	Yes
Ms	Parker	SA	UCT	F	W	MSc			Incomplete	No	No	Yes
Ms	Pichegru	France	U Louis Pasteur	F	W	MSc			Incomplete	No	No	Yes
Ms	Shine	Ireland	UCT	F	W	MSc			Incomplete	No	No	Yes
Ms	Vickers	Canada	UCT	F	W	MSc			Incomplete	No	No	Yes
Mr	Scovronick	USA	UCT	M	W	MSc			Incomplete	No	No	Yes

## 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	10
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	20
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	N I 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	Nangammbi	SA	Natal Museum	F	B	1
Dr	Nel	SA	WWF SA	M	W	5
Dr	O'Ryan	SA	UCT	F	C	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
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

Please record the following outputs generated by the CoE within the reporting period.

### Books / Chapters in Books

Hockey, P.A.R., Ryan, P.G. & Dean, W.R.J. (Eds). 2005. *Roberts Birds of Southern Africa, 7<sup>th</sup> Edition*. John Voelcker Bird Book Fund, Johannesburg.

### Articles in Peer reviewed journals

A total of 35 articles were published in peer-reviewed journals during 2005 (see Appendix 1 for a complete listing).

### Published conference proceedings

Hockey, P.A.R. 2005. Predicting migratory behavior in landbirds. In *Birds of Two Worlds* (Eds. R. Greenberg & P.P. Marra). Baltimore, The Johns Hopkins University Press. Pp 53-62.

Products / Artifacts / Patents

None.

Conferences / meetings attended

Conference of the South African Society of Systematic Biologists (February, South Africa)
Workshop on "Albatross demography" (May, USA)
"European power & energy systems" conference of the International Association of Science & Technology for Development (June, Spain)
Evolution 2005 Conference (June, USA)
19 <sup>th</sup> Annual Meeting of the Society for Conservation Biology (July, Brazil)
Conference of the Willi Hennig International Society of Systematic Biology (July, Norway)
Conference of the Zoological Society of Southern Africa (July, South Africa)
Training workshop on "Molecular Evolution" (July, USA)
Fynbos Forum Conference (August, South Africa)
Workshop on "Science and practice of ecological restoration" (October, USA)
Workshop on "All bird DNA bar-coding" (September, USA)
4 <sup>th</sup> International Hornbill Conference (December, South Africa)
Workshop on "Population and habitat viability analysis for Ground Hornbill" (South Africa)

Conferences / meetings hosted

Workshop on "Payments for ecosystem services" (March, Germany)
Symposium on "Physiological ecology" at the Zoological Society of Southern Africa conference (July, Grahamstown)
Workshop on "Rodent eradication at Tristan and Gough Islands" (October, Robben Island)
Joint workshop of CBD/GISP on "Invasive species" (November, Canada)

# FINANCES

## Income and expenditure statement



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

Centre of Excellence: Biodiversity  
Percy Fitzpatrick Institute of African Ornithology.

Financial Statements January to December 2005

	Fund 426078	Fund 021384	All funds
Brought forwards from 2004	R -241,467.17	R -1,625,066.71	R -1,866,533.88
<b>Income total</b>	R -2,195,059.70	R -155,584.45	R -2,350,644.15
NRF Income Total	R -2,099,900.00		
UCT Income Total	R -60,000.00		
Other income Total	R -35,159.70		
Investment income		R -155,584.45	
<b>Net transfer value</b>	R 250,000.00	R -250,000.00	R -
CR transfer Total	R -850,000.00	R 850,000.00	
DR transfer Total	R 1,100,000.00	R -1,100,000.00	
<b>Expenditure total</b>	R 2,019,879.01		R 2,019,879.01
Salaries Total	R 451,807.37		
Bursaries	R 467,000.00		
Conferences and related travel Total	R 155,144.85		
Other Travel and subsistence	R 157,449.03		
Equipment - Motor Vehicles	R 85,000.00		
Equipment - Other	R 84,126.06		
Computers	R 52,730.70		
Transfers to other Collaborators	R 32,000.01		
Running Expenses Total	R 27,508.16		
Fieldwork and Lab Expenses	R 315,604.83		
Running expenses - Minor Works	R 191,508.00		
<b>Carried forward to 2006</b>	R -166,647.86	R -2,030,651.16	R -2,197,299.02

### Reconciliation

SAP Balance on Fund 426078 as at 31.12.2005	R -132,138.67
Advances in Hand	R -32,200.00
Research Levy to be refunded	R -2,309.19
	R -166,647.86
SAP Balance on Fund 021384 as at 31.12.2005	R -2,030,651.16
	R -2,197,299.02

Director Percy Fitzpatrick Institute

Date

Project Managet CoE

Date

A copy of the auditor's report is presented as Appendix 3. The total CoE expenditure of R2,019,879 through 2005 was slightly greater than the annual award amount of R2 million, and represented a substantial increase in expenditure over 2004, when an unspent amount of R1,866,534 from the R2 million award was carried forward into 2005. The CoE plans a substantial increase in expenditure in 2006 over 2005, which will account for much of the accumulated carry forward from 2005 (see under operating budget for 2006 below).

## Cash flow and notes

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

**CASH FLOW ANALYSIS FOR THE 2005 FINANCIAL YEAR**

DESCRIPTION	Jan-05	Feb-05	Mar-05	Apr-05	May-05	Jun-05	Jul-05	Aug-05	Sep-05	Oct-05	Nov-05	Dec-05	TOTAL	Annual Budget	VARIANCE
NRF	1,841,467				1,999,900				100,000				3,941,367	3,620,000	321,367
Interest	25,067												25,067		25,067
Other					60,000								60,000		60,000
<b>TOTAL INCOME</b>	1,866,534	0	0	0	2,059,900	0	0	0	100,000	0	0	0	4,026,434	3,620,000	406,434
Salaries	-19,719	-24,219	-24,219	-24,219	-31,569	-28,732	-37,244	-42,058	-45,211	-43,457	-57,315	-73,843	-451,807	-790,000	338,193
Student costs		-11,400	-10,000	-33,000	-25,000	-100,000	-102,600	-102,600	-63,000	-10,000	-112,000		-467,000	-892,000	425,000
Conferences and related travel		-5,086	-450		-26,595	-23,383	-46,141	-39,435	-1,921	-2,000	4,400	-13,224	-153,834	-65,000	-88,834
Equipment						-85,000							-85,000	0	-85,000
Running	-2,225	-22,124	-19,544	-54,690	-59,598	-55,290	-46,895	-83,312	-234,767	-120,282	-105,275	-91,433	-895,435	-1,229,720	334,285
<b>TOTAL EXPENSES</b>	-21,944	-62,830	-54,213	-111,909	-117,762	-217,405	-230,280	-267,405	-344,899	-175,739	-270,190	-178,501	-2,053,076	-2,976,720	923,644
<b>NET OUTCOME PROFIT/LOSS</b>	1,844,589	-62,830	-54,213	-111,909	1,942,138	-217,405	-230,280	-267,405	-244,899	-175,739	-270,190	-178,501	1,973,358	643,280	1,330,078

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

## Operating budget for the CoE and the broader Percy FitzPatrick Institute for 2006

The abbreviated operating budget for 2006 is tabulated below. This reflects the budget administered by the host institution (UCT).

INCOME	NRF CoE	UCT	Other	TOTAL
Carry-over from 2005	2,197,299 <sup>1</sup>			
Allocation for 2006	1,980,100 <sup>2</sup>	2,752,000	1,615,000 <sup>3</sup>	
<b>TOTAL</b>	<b>4,177,399</b>	<b>2,752,000</b>	<b>1,615,000</b>	<b>8,544,399</b>
EXPENDITURE				
Salaries	683,000	2,290,000		
Student costs	902,000		462,000 <sup>4</sup>	
Conferences	180,000			
Equipment	0			
Running	1,585,000	462,000	1,153,000 <sup>5</sup>	
<b>TOTAL</b>	<b>3,350,000</b>	<b>2,752,000</b>	<b>1,615,000</b>	<b>7,717,000</b>
Carry forward to 2007	827,399	0	0	827,399

<sup>1</sup>Includes an overpayment of R 100,000 to the CoE by the NRF in 2005

<sup>2</sup>Includes the deduction of the overpayment, and a 4% increase

<sup>3</sup>Minimum estimate

<sup>4</sup>Excludes student costs borne by collaborating institutions (both inside and outside of South Africa) for students without CoE bursary support

<sup>5</sup>Excludes substantial running costs borne by collaborating institutions (both inside and outside of South Africa)

## STAGE 2 PROGRESS

This section gives information to the Board that will enable them to decide whether the CoE has made sufficient progress to pass from Stage 2 (Storming) into Stage 3 (Norming).

Please provide summary information that allows the board to address the following questions pertinent to the evaluation of progress through Stage 2:

1. **Has the CoE produced early outputs?** The CoE published 35 peer-reviewed scientific papers in SCI-ranked journals and 50 semi-popular publications, many of them stemming from work initiated under the CoE. Sixteen MSc students (38% black, 38% women) first registering in 2004 (13 registered within the CoE) graduated through 2005.
2. **Has the CoE demonstrated good management?** The CoE has a smoothly functioning management system in place, having appointed a Manager, Secretary, and the first Chair in Conservation Biology to complement an existing management structure.
3. **Has the CoE demonstrated synergies?** A number of cross-disciplinary research projects have been developed that integrate the skills of CoE collaborators across institutions. These interactions have promoted large-scale collection and sharing of data and specimen samples. These synergies have resulted in many joint-venture student training initiatives between team members, collaborators and institutions.
4. **Has the long-term strategy of the CoE been presented and confirmed?** Yes, at the November 2005 board meeting.
5. **Is the cash flow of the CoE considered to be satisfactory?** Whereas there was a substantial underspend in 2004, expenditure through 2005 increased to the approximate value of the annual award amount. A further increase in expenditure through 2006 is expected to substantially reduce the carry forward from the previous two years.
6. **Has the CoE demonstrated growing team spirit?** Team members involved in collaborative projects have together identified research priorities and coordinated field-work activities, such as the collecting of samples for the molecular genetics projects. These synergistic interactions, together with an increasing number of joint-venture student training initiatives, has promoted a growing team spirit among team leaders and postgraduate students within the CoE.

## CONCLUSION

At the end of this 'Storming' stage, the CoE has demonstrated an increasing trend in the quality of its research publications. It has a smoothly functioning management system in place, having appointed a Manager, Secretary, and the first Chair in Conservation Biology. The long-term strategy of the CoE has been refined to accommodate the activities of the Percy FitzPatrick Institute as a whole, together with CoE collaborators. This has simplified management and reporting procedures, and helped build a more cohesive team spirit within the Percy FitzPatrick Institute as a whole. 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 many joint-venture student training initiatives between team members, collaborators and institutions. These increased interactions have promoted a growing team spirit among team leaders and postgraduate students within the CoE. Whereas there was a substantial underspend in 2004, expenditure through 2005 increased to the approximate value of the annual award amount. A further increase in expenditure through 2006 is expected to substantially reduce the carry forward from the previous two years. With 52 postgraduate students supported in 2005, and with 11 postdocs and 50 postgraduate students due to be involved in the CoE through 2006, the CoE is well positioned to meet output targets for the 'Norming' stage.

## Appendix 1: Publications for 2005 (CoE members in bold type)

### Peer-reviewed articles

- Archibald, S., Bond, W.J., Stock, W.D. & **Fairbanks, D.H.K.** 2005. Shaping the landscape: Fire-grazer interactions in an African savanna. *Ecological Applications* 15: 96-109.
- Balmford, A.**, L. Bennun, B. ten Brink, D. Cooper, I.M. Côté, P. Crane, A. Dobson, N. Dudley, I. Dutton, R.E. Green, R. Gregory, J. Harrison, E.T. Kennedy, C. Kremen, N. Leader-Williams, T. Lovejoy, G. Mace, R. May, P. Mayaux, J. Phillips, K. Redford, T.H. Ricketts, J.P. Rodriguez, M. Sanjayan, P. Schei, A. van Jaarsveld, & B. A. Walther. 2005. Science and the Convention on Biological Diversity's 2010 target. *Science* 307: 212-213.
- Balmford, A.** & W. Bond. 2005. Trends in the state of nature and implications for human well-being. *Ecology Letters*. 8: 1218-1234.
- Balmford A.**, Green RE, Scharlemann JPW 2005. Sparing land for nature: exploring the potential impact of changes in agricultural yield on the area needed for crop production. *Global Change Biology* 11 (10): 1594-1605.
- Balmford, A.**, Crane, P., Dobson A, Green, R.E. & Mace, G.M. 2005 The 2010 challenge: Data availability, information needs and extraterrestrial insights. *Philosophical Transactions of the Royal Society B-Biological Sciences* 360: 221-228 .
- Beresford, P.**, Barker, F.K., **Ryan, P.G.** & **Crowe, T.M.** 2005. African endemics span the tree of songbirds (Passeri): molecular systematics of several evolutionary 'enigmas'. *Proceedings of the Royal Society B* 272:849-858.
- Bomhard, B.**, Richardson, D.M., Donaldson, J.S., Hughes, G.O., Midgley, G.F., **Raimondo, D.C.**, Rebelo, A.G., **Rouget, M.** and Thuiller, W. 2005. Potential impacts of future land use and climate change on the Red List status of the Proteaceae in the Cape Floristic Region, South Africa. *Global change Biology* 11:1452-1468.
- Bowie, R.C.K.**, Voelker, G., Fjeldså, J. Lens, L., Hackett, S.J. and **Crowe, T.M.** 2005. Systematics of the olive thrush *Turdus olivaceus* species complex with reference to the taxonomic status of the endangered Taita thrush *T. helleri*. *Journal of Avian Biology* 36:391-404.
- Bragg, C.J.**, Donaldson, J.D. & **Ryan, P.G.** 2005. Density of Cape porcupines in a semi-arid environment and their impact on soil turnover and related ecosystem processes. *Journal of Arid Environments* 61:261-275.
- Covas, R. & du Plessis, M.A.** 2005. The effect of helpers on artificially increased brood size in sociable weavers (*Philetairus socius*). *Behavioural Ecology and Sociobiology* 57:631-363.
- Curtis, O.**, **Malan, G.**, **Jenkins, A.** & Myburgh, N. 2005. Multiple-brooding in birds of prey: South African Black Sparrowhawks *Accipiter melanoleucus* extend the boundaries. *Ibis* 147:11-16.



- Cuthbert, R., Hilton, G., **Ryan, P.** & Tuck, G.N. 2005. At-sea distribution of breeding Tristan albatrosses *Diomedea dabbenena* and potential interactions with pelagic longline fishing in the South Atlantic Ocean. *Biological Conservation* 121:345-355.
- Danielsen, F. N.D. Burgess, **A. Balmford.** 2005. Monitoring Matters: Examining the Potential of Locally-based Approaches. *Biodiversity & Conservation* 14:2507-2542.
- Dean, W.R.J.** 2005. The type locality of the Hadedda Ibis *Bostrychia hagedash* (Latham) *Bulletin of the British Ornithologists' Club* 125:42-43.
- Dean, W.R.J. & Milton, S.J.** 2005. Stomach contents of birds (Aves) in The Natural History Museum, Tring, United Kingdom, collected in southern Africa, northern Mozambique and Angola. *Durban Museum Novitates* 30:15-23.
- Dean, W.R.** & Williams, J.B. 2005. Adaptations of birds for life in deserts with particular reference to Larks (Alaudidae). *Transactions of the Royal Society of South Africa* 59:79-51.
- De Villiers, M.S., Cooper, J. & **Ryan, P.G.** 2005. Individual variability of behavioural responses by Wandering Albatrosses (*Diomedea exulans*) to human disturbance. *Polar Biology* 28:255-260.
- Du Plessis, M.A. & Sandwith, M.M.** 2005. Book review: The Birds of Africa Vol 7, Sparrows to Buntings. *Ostrich* 76:95.
- Green, R.E., Cornell, S.J., Scharlemann, J.P.W. & **Balmford, A.** 2005 Farming and the fate of wild nature *Science* 307: 550-555 .
- Green, R.E., S. J. Cornell, J.P.W. Scharlemann & **A. Balmford.** 2005. The future of farming and conservation. *Response. Science* 308: 1257-1258.
- Hockey, P.A.R.** 2005. Predicting migratory behavior in landbirds. In *Birds of two worlds* edited by R. Greenberg & P.P. Marra. Baltimore, The Johns Hopkins University Press. Pp 53-62.
- Jansen, R. & Crowe, T.M.** 2005. Relationships between breeding activity and rainfall for Swainson's Suprfowl, *Pternistis swainsonii*, within southern Africa, with specific reference to the Springbok Flats, Limpopo Province, South Africa. *Ostrich* 76:190-194.
- Jenkins, A.R. & van Zyl, A.J.** 2005. Conservation status and community structure of cliff-nesting raptors and ravens on the Cape Peninsula, South Africa. *Ostrich* 76:175-184.
- Little, I.T., Little, R.M., Jansen, R. & Crowe, T.M.** 2005. Winter bird assemblages, species richness and relative abundance at a re-vegetated coal mine in the Middelburg district, Mpumalanga province, South Africa. *South African Journal of Wildlife Management* 35:13-22.
- Lloyd, P., Martin, T.E., Redmond, R.L., Langner, U. & Hart, M.M.** 2005. Linking demographic effects of habitat fragmentation across landscapes to continental source-sink dynamics. *Ecological Applications* 15:1504-1514.
- Machange, R.W., Jenkins, A.R. & Navarro, R.A.** 2005. Eagles as indicators of ecosystem health: Is the distribution of Martial Eagle nests in the Karoo,

- South Africa, influenced by variations in land-use and rangeland quality? *Journal of Arid Environments* 63:223-243 .
- Malan, G.** 2005. Reproductive partitioning among polyandrous alpha and beta pale chanting-goshawk males. *African Zoology* 40:213-222.
- Mills, M.S.L. , Boix-Hinzen, C. & du Plessis, M.A.** 2005. Live or let live: life-history decisions of the breeding female Monteiro's Hornbill *Tockus monteiri*. *Ibis* 147:48-56.
- Mills, M.S.L. & Ryan, P.G.** 2005. Modelling impacts of long-line fishing: what are the effects of pair-bond disruption and sex-biased mortality on albatross fecundity? *Animal Conservation* 8:359-367.
- Milton, S.J., Dean, W.R.J. & Leuteritz, Th.E.J.** 2005. Opportunistic and multiple breeding attempts in plants and vertebrates of semi-deserts with unpredictable rainfall events through the year. *Transactions of the Royal Society of South Africa* 59:43-53.
- Muchai, M. & du Plessis, M.A.** 2005. Nest predation of grassland bird species increases with parental activity at the nest. *Journal of Avian Biology* 36(2): 110-116.
- Prinsloo, H.C., Harley, V., Reilly, B.K. & Crowe, T.M.** 2005. Sex-related variation in morphology of helmeted guineafowl (*Numida meleagris*) from the Riemland of the northeastern Free State, South Africa. *South African Journal of Wildlife Research* 35:98-96.
- Radford, A.N.** 2005. Group-specific vocal signatures and neighbour-stranger discrimination in the cooperatively breeding green woodhoopoe. *Animal Behaviour* 70:1227-1234.
- Roupert-Coudert, Y., Grémillet, D., Gachot-Neveu, H., Lewis, S. & **Ryan, P.G.** 2005. Seeking dimorphism in monomorphic species: the lure of the Gannet's mask. *Ostrich* 76:212-214.
- Roxburgh, L. & Nicolson, S. W.** 2005 Patterns of host use in two African mistletoes: the importance of mistletoe–host compatibility and avian disperser behaviour. *Functional Ecology* 19:865–873.
- Ryan, P.G. & Marshall, H.K.** 2005. Variation in the wing-clapping display of Clapper Larks. *Ostrich* 76:73-77.
- Ryan, P.G. & Sinclair, I.** 2005. Mussulo – an important shorebird wintering site in Angola. *Wader Study Group Bulletin* 108:1.
- Simmons, R.E.** 2005. Declining coastal avifauna at a diamond mining site in Namibia: comparisons and causes. *Ostrich* 76:97-103.
- Simmons, R.E., Du Plessis, M.A., & Hedderson, T.A.J.** 2005. Seeing the Woodhoopoe for the trees: should we abandon Namibia's Violet Woodhoopoe as a species? *Ibis* 147: 222-224.

## Semi-popular articles/books

- Anderson, S. & **Cohen, C.** 2005. The western Cape: an 'essential birding' destination. *BirdLife South Africa News*, April/May: 6-8 & *Africa Birds and Birding* 10(2):76-78.
- Anderson, S. & **Cohen, C.** 2005. The western Cape: an 'essential birding' destination, part 2. *BirdLife South Africa News*, June/July: 6-7 & *Africa Birds and Birding* 10(3):76-77.
- Angua, M.** 2005. The story of the old man saltbush in the Karoo. *African Wildlife* 59:38-39.
- Biggs, D.** 2005. Bird- and ecotourism-based participatory biodiversity conservation in Africa. *BirdLife South Africa Research Series No. 2*. BirdLife South Africa, Johannesburg.
- Biggs, D.** 2005. Birding and touring Argentina. <http://www.birdtours.co.uk/tripreports/argentina/arg11/argentina-feb-05.htm>.
- Cohen, C., Spottiswoode, C., Mills, M.** & Murison, G. 2005. Kirsten Louw: 20 February 1979 – 12 May 2005 *Promerops* 263:4-5.
- Crowe, T.M.** 2005. DNA and taxonomy? *Quest* 1:37.
- Du Plessis, M.A.** 2005. Eggs over easy: comment. *Africa Birds and Birding* 10(3):32.
- Du Plessis, M.A.** 2005. Red-winged Starlings that breed in the urban environment. *Promerops* 263:16.
- Ebrahim, I., von Witt, C. & **Cohen, C.** 2005. Peacocks, ploughs and porcupines: the plight of the peacock moraeas. *Veld & Flora* 91:185-187.
- Hockey, P.A.R.** 2005. All birds have them...feathers. *Africa Birds and Birding* 10(5):30-39.
- Hockey, P.A.R.** 2005. Birders... a case for selective breeding? *Africa Birds and Birding* 10(6):56-57.
- Hockey, P.A.R.** 2005. Report KZN African Black Oystercatcher sightings. *Africa Birds and Birding* 10(6):79.
- Hockey, P.A.R.** & du Toit, R. 2005. In their element. *Africa Birds and Birding* 10(5):41-45.
- Hockey, P.A.R.** 2005. Righting the wrongs: the apostrophe and hyphenation confusion in birds' names. *Africa Birds and Birding* 10(4):18.
- Hockey, P.A.R.** 2005. Book Review: *Shorebirds of North America – the photographic guide*. *Africa Birds and Birding* 10(4):22
- Jenkins, A.** 2005. Book Review: *Soutpansberg-Limpopo birding*. *Africa Birds and Birding* 10(4):23
- Jenkins, A.** 2005. Change can be a good thing. *Africa Birds and Birding* 10(3):40.
- Jenkins, A.** 2005. Food and shelter. *Africa Birds and Birding* 10(1):42.
- Jenkins, A.** 2005. The price of perfect produce. *Africa Birds and Birding* 10(1):38.
- Jenkins, A.** 2005. Raptors going forward. *Africa Birds and Birding* 10(4):52.
- Jenkins, A.** 2005. Update on the Eskom Electric Eagle Project. *Africa Birds and Birding* 10(6):30.
- Jenkins, A.** and R. Davies. 2005. Dying for a drink: running the raptor gauntlet at Kalahari waterholes. *Africa Birds and Birding* 10(4):34-45.
- Milewski, A.** 2005. The point of the clitoris. *Australasian Science* (January/February):36-37.

- Milewski, A.** 2005. "A flower is a leaf, mad with love": the sex organs that are flowers. *Veld & Flora* June:80-81.
- Milewski, A.** 2005. When is an Impala hot to trot? *African Wildlife* 59:26-27
- PFIAO.** 2005. Birds and land-use in the southern Kalahari. *Africa Birds and Birding* 10(2):21.
- PFIAO.** 2005. Keeping tabby off the rails. *Africa Birds and Birding* 10(5):20.
- PFIAO.** 2005. Landing rights: crane conservation conundrums on South African farmland. *Africa Birds and Birding* 10(4):62-64.
- PFIAO.** 2005. The long & the short of it. *Africa Birds and Birding* 10(1):23.
- PFIAO.** 2005. Raptor responses to habitat fragmentation. *Africa Birds and Birding* 10(4):19.
- PFIAO.** 2005. Running for cover: small birds as big players in South Africa's grassland conservation game. *Africa Birds and Birding* 10(5):50-51.
- PFIAO.** 2005. Shrinking papyrus swamps in Kenya. *Africa Birds and Birding* 10(3):23.
- PFIAO.** 2005. Top of the heap: eagle perspectives on farming practices in the Karoo. *Africa Birds and Birding* 10(6):28-30
- PFIAO.** 2005. Tracking threatened albatrosses off southern Africa. *Africa Birds and Birding* 10(6):19
- Ryan, P.G.** 2005. AZE Region Profile: Oceanic Islands. Spectacled petrel photograph. *Bird Conservation*: December:18.
- Ryan, P.G.** 2005. Do birds migrate because they're stupid? *Africa Birds and Birding* 10(6):12.
- Ryan, P.G.** 2005. Inaccessible Conservation Projects. *Tristan da Cunha Newsletter*. March:10-11.
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## Appendix 2: List of students for 2006

Title	Surname	Citizen-ship	Institution	Gender	Race	Degree	Status	CoE funding support level		
								Bursary	Running	Indirect
Dr	Covas	Portugal	Edinburgh	F	W	Postdoc		No	No	Yes
Dr	Delpont	SA	UP	M	W	Postdoc		Yes	Yes	Yes
Dr	Eising	Netherlands	UCT	F	W	Postdoc		Yes	Yes	Yes
Dr	Johansson	Sweden	US	M	W	Postdoc		Yes	Yes	Yes
Dr	Radford	UK	Cambridge	M	W	Postdoc		No	No	Yes
Dr	Ridley	Australia	UCT	F	W	Postdoc		Yes	No	Yes
Dr	Roxburgh	SA	UCT	F	W	Postdoc		No	No	Yes
Dr	Schoeman	SA	UCT	M	W	Postdoc		Yes	Yes	Yes
Dr	Schmaltz	Germany	Montpellier	M	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
Mr	Barnes	SA	UCT	M	W	PhD	Incomplete	No	No	Yes
Mr	Cohen	SA	UCT	M	W	PhD	Incomplete	No	No	Yes
Ms	De Ponte	Portugal	UCT	F	W	PhD	Incomplete	No	No	Yes
Ms	Hermann	SA	UP	F	W	PhD	Incomplete	No	Yes	Yes
Mr	Knowles	SA	US	M	W	PhD	Incomplete	No	No	Yes
Mr	Loewenthal	SA	UCT	M	W	PhD	Incomplete	No	No	Yes
Mr	Lokugalappatti	Sri Lanka	US	M	B	PhD	Incomplete	No	No	Yes
Ms	Mandiwana	SA	UCT	F	B	PhD	Incomplete	Yes	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	Seymour	SA	UCT	F	W	PhD	Incomplete	No	No	Yes
Ms	Techow	SA	UCT	F	W	PhD	Incomplete	No	Yes	Yes
Ms	Van Hase	Germany	UCT	F	W	PhD	Reg. pending	No	No	Yes
Mr	Wanless	SA	UCT	M	W	PhD	Incomplete	No	No	Yes

Ms	Wilhelm-Rechman	Germany	UCT	F	W	PhD	Reg. pending	No	No	Yes
Ms	Baudains	SA	UCT	F	W	MSc	Incomplete	Yes	Yes	Yes
Mr	Biggs	SA	UCT	M	W	MSc	Incomplete	Yes	No	Yes
Mr	Bird	SA	UCT	M	W	MSc	Incomplete			
Mr	Boundja	Rep Congo	UCT	M	B	MSc	Incomplete			
Mr	Burnside	UK	UCT	M	W	MSc	Incomplete			
Ms	Daniels	SA	UCT	F	B	MSc	Incomplete			
Mr	Dundee	Namibia	UCT - AMS	M	B	MSc	Incomplete	No	No	Yes
Ms	Fox	SA	UCT	F	W	MSc	Incomplete	No	No	Yes
Ms	Gordon	SA	UCT	F	W	MSc	Incomplete			
Ms	Hampton	SA	UCT - ADU	F	W	MSc	Incomplete	No	No	Yes
Ms	Hill	SA	UCT	F	W	MSc	Incomplete			
Ms	Jenkins	New Zealand	UCT	F	W	MSc	Incomplete			
Mr	Kaliba	Malawi	UCT	M	B	MSc	Incomplete	No	Yes	Yes
Ms	Lauret-Stepler	Reunion	UCT	F	W	MSc	Incomplete	No	No	Yes
Mr	Maswime	SA	UCT	M	B	MSc	Incomplete	Yes	Yes	Yes
Ms	McDonell	Canada	UCT	F	W	MSc	Incomplete	No	No	Yes
Ms	McGregor	SA	UCT	F	W	MSc	Incomplete			
Mr	Musangu	Kenya	UCT	M	B	MSc	Incomplete			
Ms	Nupen	SA	UCT	F	W	MSc	Incomplete			
Ms	Nzuzi	Angola	UCT	F	B	MSc	Incomplete	No	No	Yes
Mr	Oatley	SA	UCT	M	W	MSc	Incomplete	No	Yes	Yes
Ms	Parker	SA	UCT	F	W	MSc	Incomplete	No	No	Yes
Ms	Pichegru	France	U Louis Pasteur	F	W	MSc	Incomplete	No	No	Yes
Mr	Raharinjanahary	Madagascar	UCT	M	B	MSc	Incomplete			
Ms	Seoraj	SA	UKZN	F	B	MSc	Incomplete	No	No	Yes
Mr	Shelton	SA	UCT	M	W	MSc	Incomplete			
Ms	Schultz	Australia	UCT	F	W	MSc	Incomplete			
Mr	Scovronick	USA	UCT	M	W	MSc	Incomplete	No	No	Yes

Ms	Shine	Ireland	UCT	F	W	MSc	Incomplete	No	No	Yes
Ms	Stephen	SA	UCT	F	W	MSc	Incomplete	No	No	Yes
Mr	Suinyuy	Cameroon	UCT	M	B	MSc	Incomplete	No	No	Yes
Ms	Thomas	UK	UCT	F	W	MSc	Incomplete			
Ms	Thomasset	France	U Stellenbosch	F	W	MSc	Incomplete	No	No	Yes
Ms	Vickers	Canada	UCT	F	W	MSc	Incomplete	No	No	Yes
Mr	Vincent	SA	UCT	M	W	MSc	Incomplete	Yes	Yes	Yes