



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

**ANNUAL PROGRESS REPORT 2008**

**Reporting Period**  
**1 January - 31 December 2008**

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**Identification**

Name of 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	: 6 May 2009

## EXECUTIVE SUMMARY

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

Total NRF funding for 2008	: R 2,247,200*
Funding from host institution in 2008	: R 180,000**
Funding from other sources for the CoE in 2008	: R 20,900***
Carry forward from 2007	: R 1,216,743
<b>Total funding</b>	<b>: R 3,664,843</b>

\* excludes investment income due to UCT introduction of a 1-year delay in crediting (R80,931.91 will show in 2009)

\*\* 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. Includes faculty funding for Director's IT (R5,900) & DST fund for the Academy (R15,000)

### 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 2008, 52 in journals with a rating  $\geq 1.5$ , 21 in journals with a rating  $\geq 3.5$ , and 2 in journals with a rating  $\geq 10$ . Two PhD students received significant awards for their contributions to research excellence in their fields. A paper providing the most thorough investigation to date of the higher-level phylogenetics of birds was published in *Science*.

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

Fourteen PhD, 29 MSc and two BSc Honours students registered at South African institutions (29% black and 51% women) were supported directly or indirectly within the CoE during 2008. Two PhD, 15 MSc and 2 BSc Hons students graduated in 2008.

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

Forty-four semi-popular publications and six contributions to semi-technical books were published. CoE members attended seven international and seven 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 continued to be involved with 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 50 papers for peer-review journals, and at least six grant proposals or researcher rating applications for the NRF and NSF.

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

A proactive policy on recruiting women ensured a 51% representation of women in the postgraduate student body for 2008. 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 staff replacement processes of one year for the CoE Director and five months for the CoE Manager impacted negatively on research productivity and management efficiency in the short term. One consequence of the long delay in replacing the Director is that the CoE has been short of one academic staff member since September 2007: this represents 20% of the broader FitzPatrick Institute's academic staff quota.

5. **General Comments** (Maximum 15 lines)

The Centre continues to achieve an upward trend in the quality of its research publications, as measured by their impact factors, and is well positioned to meet the longer-term 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.

# PROGRESS REPORT

## 1. Scientific Research

### Objective

The research strategy of the CoE has been aligned to a medium-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 high SCI impact factor ratings. To meet this goal, the CoE had 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 (see Fig. 1).

### Progress

A total of 70 papers carrying the CoE address were published in SCI-rated journals during 2008, 52 of which were published in journals with an impact factor rating  $\geq 1.5$  (see Appendix 1 for a full listing). Twenty-one of these papers were published in journals with impact factors  $\geq 3.5$  and two of them in journal with a rating  $\geq 10$ . A breakdown of individual CoE member publication outputs is provided as Appendix 2.

FitzPatrick Institute publications in SCI-rated journals, 2000-2008

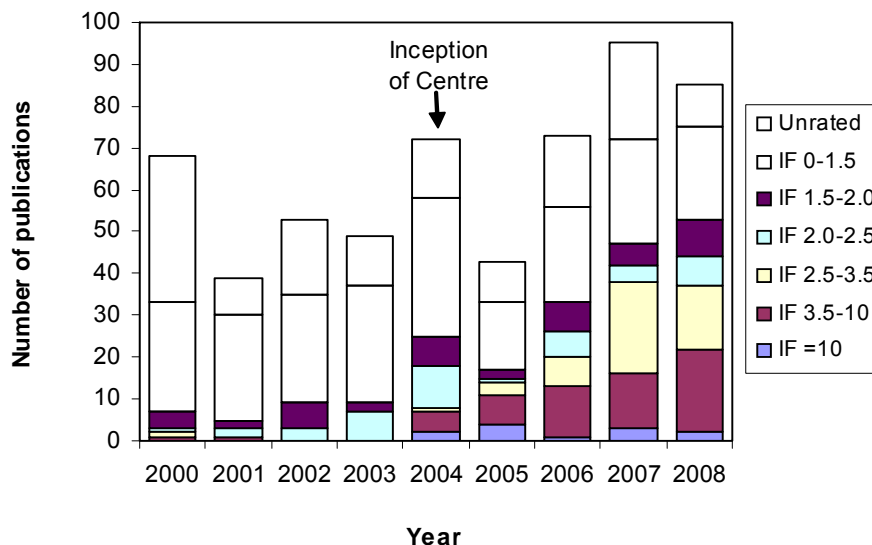


Fig. 1. Analysis of the trend in the quality of CoE publications (as measured by journal 'Impact Factors') before and since the establishment of the Centre of Excellence. IF = Impact Factor. To place the figure in perspective, only five life sciences journals (including Science and Nature) have impact factors  $> 10$ .

In 2008, a study published in *Conservation Biology* ranked UCT top in a comparison of the impact of conservation science research published by southern-hemisphere universities in Australia, New Zealand and South Africa. This conclusion was based on an analysis of the *h-indexes* of papers published in six top conservation biology journals during 2000-2005. The same analysis concluded that UCT's impact was equivalent to that of the fourth-rated of 314 universities in North America. We are confident that the products of the CoE contributed significantly to this prestigious accolade and will have contributed even more subsequently (Fig. 1).

Two PhD students received significant awards for their contributions to research excellence in their fields. Ross Wanless was awarded the Dean's Medal for the best PhD in the Science Faculty as well as winning third prize in an international United Nations (UNEP-CMS) competition for the best PhD on the conservation of migratory species. Samantha Petersen won first prize in that same competition. Prof. Phil Hockey was awarded the Stevenson-Hamilton Award of the Zoological Society of Southern Africa for his outstanding contributions towards the image and awareness of Zoology, especially among the general public: this award will be presented at the ZSSA meeting in July 2009. Andrew McKechnie was awarded an Exceptional Young Achiever Award by the University of Pretoria.

## **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  $\geq 20$  students per annum over the period 2006-2009, and  $\geq 2$  postdoctoral associates by 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,  $\geq 3$  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***

Fourteen PhD, 29 MSc students, and two BSc Honours students (total = 45) registered at South African institutions were supported directly or indirectly by the CoE during 2008. Thirteen (29%) of these students were black, and 23 (51%) were women. Four new Postdoctoral Fellows joined the CoE during 2008. One PhD and 13 MSc (11 CB Course) students started at the CoE during 2008. Two PhD, 15 MSc (12 CB Course) and 2 BSc Hons students graduated in 2008.

Phil Hockey, Tim Crowe, Peter Ryan, Penn Lloyd and 14 other CoE members or students attended the 12th Pan-African Ornithological Congress held at Goudini Spa, Western Cape, during 7-12 September 2008, and presented the results from a range of CoE research activities.

Tshifhiwa Mandiwana was awarded top prize for a paper presented by a PhD student at the Symposium of the Southern African Society for Systematic Biology and Anja Teroerde won the top prize for the best student oral presentation at the SA Marine Science Symposium.

The 2<sup>nd</sup> DST/NRF Academy in Biodiversity Conservation was successfully held during 21-25 January 2008. Fourteen students that had completed 2-4 years of their degrees participated. They were 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 were from designated groups, and six were women. The Academy received high commendation for the Academy and strong support for its expansion from the CoE five-year review Panel.

The two PhD award winners, Ross Wanless and Samantha Peterson, have been appointed to the posts of Seabird Conservation Officer for BirdLife South Africa and Manager of the BirdLife/WWF Responsible Fisheries Programme, respectively. The progression of other students from the CoE into jobs or further postgraduate study is outlined in the student fate report in Appendix 3. This report is not yet sufficiently complete for detailed analysis.

The CoE secured additional DST/NRF funding for another three postdoctoral fellows from 2009: at the time of writing, all three are working at the Institute. 2008 saw a revamped Conservation Biology (CB) Programme curriculum designed to keep pace with the rapidly changing face of the science of conservation biology. The CB facility was relocated from the cramped ground-floor space in the NSLT to a vastly improved facility on the upper floor. The Science Faculty and ITS are thanked for providing the majority of the funds that allowed this upgrade.

### **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 were each expected to present their work at one or more international conferences during 2008. A further target of SLA3 is for the CoE to organise  $\geq 2$  local conferences and  $\geq 1$  international conference over the period 2006-2009.

#### ***Progress***

Forty-four semi-popular publications were published during 2008 (see Appendix 1). CoE members also contributed to six books, including *The Prince Edward Islands: land-sea interactions in a changing ecosystem* edited by S.L. Chown & P.W. Froneman and *Hypometabolism in animals: torpor, hibernation and cryobiology* edited by B.G. Lovegrove & A.E. McKechnie.

The findings of published research from the Southern Pied Babbler and Green Wood-Hoopoe research projects continued to receive extensive coverage in the international media, including appearances on radio and TV shows. Film crews also visited the babbler study site to film aspects of behaviour.

CoE members also continued to present regular public talks to partner organisations and interested parties, such as, *Africa Geographic* Reader Evenings, Honorary Rangers, Friends of the South African Museum, Environmental Action Groups, Conservancies and various Bird Clubs and membership-based societies. Radio interviews have also been conducted on stations including Cape Talk Radio and Bush Radio.

CoE members attended seven international and seven local conferences and workshops, and hosted a number of training workshops with the fishing industry in South Africa (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 continued its involvement with joint-venture student training initiatives and other networking interactions between institutions directly or loosely collaborating with the CoE. Primary student exposure was to the collaborating laboratories of Dr. Colleen O’Ryan (Molecular Biology, UCT), Prof. Terry Hedderson (Botany, UCT) and the molecular laboratory of A/Prof. Rauri Bowie at the University of California, Berkeley.

A diversity of close collaborative working relationships with scientific peers now exist both nationally and internationally (see list of collaborators below). Fifteen visiting scientists, five from England, four from elsewhere in Europe, four from the USA and one each from Argentina and Kenya, spent time at the CoE during 2008. 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 of the nine Post-doctoral Fellows came from five different foreign countries.

The Conservation Biology Course has continued to build much-needed capacity within and outside of South Africa in the broad area of biodiversity conservation, with the graduation of students from Sudan, Pakistan and the USA and the enrolment of three students from the USA, three from Scotland and one each from England, Malawi and Zimbabwe during 2008.

#### **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 continue to be serviced with a diversity of conservation agencies, NGO’s, government departments, and industry players. These include Dept Environmental Affairs & Tourism (including the Marine & Coastal Management Directorate), 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 Seabird Research Team participated actively in the Fourth International Albatross and Petrel Conference, followed by a Meeting of Parties of the Agreement for the Conservation of Albatrosses and Petrels (ACAP). Both activities cemented CoE relationships and contributions towards enhancing seabird conservation policy. Peter Ryan also attended a workshop hosted by WWF-SA in August to promote closer collaboration between South African and French workers at the adjacent sub-Antarctic island groups of the Prince Edwards (SA) and Crozets (France).

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 50 papers for peer-reviewed international and local journals, and at least six grant proposals or researcher rating applications for the NRF during 2008.

Prof Phil Hockey serves on the BirdLife South Africa Rarities and List Committees. Prof Tim Crowe serves on the International Ornithological Congress Committee, and the Board of the South African Biodiversity Information Facility. Prof Paulette Bloomer is President of the Southern African Society for Systematic Biology. She is also a member of 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 served 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 proactive recruitment policy in place to attract female postgraduates to ensure gender parity in the CoE student body. This policy has been successful: in 2008, 51% of postgraduate students supported by the CoE were women. Furthermore, 55% of the nine postdoctoral fellows working with the CoE during 2008 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 2008 (or part thereof).

\* = South African permanent resident.

### 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	South Africa	UCT	M	W	100
Prof.	Du Plessis	South Africa	UCT	M	W	100
Prof.	Hockey	UK*	UCT	M	W	100
Dr	Lloyd	South Africa	UCT	M	W	100
Dr	McKechnie	South Africa	UP	M	W	20
Prof.	Ryan	South Africa	UCT	M	W	100
Dr	Bowie	South Africa	U. California, Berkley	M	W	50

Prof. Phil Hockey served as Acting Director until August 2008, when he was formally appointed as Director. Dr Penn Lloyd resigned as the Manager of the CoE in at the end on November and will leave the Institute at the end of January 2009.

### 2. Research Associates & Honorary Professors

Title	Surname	Citizenship	Institution	Gender	Race	% time spent working in CoE
Dr	Barnard	UK	SANBI	F	W	3
Dr	Covas	South Africa	UCT	F	W	10
Dr	Milton	South Africa	UCT	F	W	40
Dr	Dean	South Africa	UCT	M	W	20
Prof	Cumming	Zimbabwe	U Zimbabwe	M	W	10
Dr	Milewski	Australia	Murdoch U., W. Aus.	M	W	20
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	De Melo	Portugal	Edinburgh, Scotland	M	W	100	Yes	Yes	Yes
Dr	Loewenthal	SA	UCT	M	W	100	No	Yes	Yes
Dr	Bruinzeel	Netherlands	UCT	M	W	100	No	No	Yes
Dr	Fuchs	France	UCT	M	W	100	Yes	Yes	Yes
Dr	Pichegru	France	UCT	F	W	100	Yes	Yes	Yes
Dr	Rondon	USA	Miami Univ.	F	W	100	No	No	Yes
Dr	Techow	SA	UCT	F	W	100	Yes	Yes	Yes

### 4. Students

Title	Surname	Citizenship	Institution	Gender	Race	Degree	1 <sup>st</sup> 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	Nupen	SA	UCT	F	W	PhD	Oct 2008		Incomplete	No	Yes	Yes
Ms	Petersen	SA	UCT	F	W	PhD	2004	3	Graduated	No	Yes	Yes
Ms	Pichegru	France	U Louis Pasteur	F	W	PhD	Oct 2004	4	Graduated	No	No	Yes
Ms	Raihani	UK	Cambridge, UK	F	W	PhD	2004	4	Graduated	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

Title	Surname	Citizenship	Institution	Gender	Race	Degree	1 <sup>st</sup> year	Throughput (years)	Status	CoE funding support level		
										Bursary	Running	Indirect
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	No	No	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 CB	2006	1.5	Graduated	No	No	Yes
Ms	Ditlhobolo	Botswana	UCT	F	B	MSc CB	2008		Incomplete	No	No	Yes
Ms	Musvuugwa	Zimbabwe	UCT	F	B	MSc CB	2008		Incomplete	No	No	Yes
Ms	Mzumara	Malawi	UCT	F	B	MSc CB	2008		Incomplete	No	No	Yes
Ms	Wistebaar	SA	UCT	F	B	MSc CB	2007	1.5	Graduated	No	No	Yes
Mr	Babiker	Sudan	UCT	M	B	MSc CB	2007	1.5	Graduated	Yes	No	Yes
Mr	Bewana	SA	UCT	M	B	MSc CB	2008		Incomplete	No	No	Yes
Mr	Boundja	Rep Congo	UCT	M	B	MSc CB	2006	1.5	Graduated	No	No	Yes
Mr	Chaudhry	Pakistan	UCT	M	B	MSc CB	2007	1.5	Graduated	No	No	Yes
Mr	Musangu	Kenya	UCT	M	B	MSc CB	2006	1.5	Graduated	No	Yes	Yes
Mr	Mutumi	Zimbabwe	UCT	M	B	MSc	2008		Incomplete	No	No	Yes
Mr	Ndlovu	Zimbabwe	UCT	M	B	MSc	2007		Incomplete	Yes	Yes	Yes
Mr	Raharinjanahary	Madagascar	UCT	M	B	MSc CB	2006	1.5	Graduated	No	No	Yes
Ms	Cordingley	Kenya	UCT	F	W	MSc CB	2008		Incomplete	No	No	Yes
Ms	Gordon	SA	UCT	F	W	MSc CB	2006	1.5	Graduated	No	No	Yes
Ms	Hamman	Germany	UCT	F	W	MSc CB	2008		Incomplete	Yes	Yes	Yes
Ms	Hampton	SA	UCT - ADU	F	W	MSc	2005	3	Graduated	Yes	No	Yes
Ms	Hempson	SA	UCT	F	W	MSc CB	2007	1.5	Graduated	No	No	Yes
Ms	Hill	SA	UCT	F	W	MSc CB	2006	1.5	Graduated	No	No	Yes
Ms	Humphrey	SA	UCT	F	W	MSc CB	2007	1.5	Graduated	Yes	No	Yes
Ms	Jenkins	New Zealand	UCT	F	W	MSc CB	2006	1.5	Graduated	No	Yes	Yes
Ms	La Grange	SA	UCT	F	W	MSc CB	2007	1.5	Graduated	Yes	Yes	Yes
Ms	Lannas	SA	UCT	F	W	MSc	2007	2	Graduated	No	No	Yes
Ms	Lipsey	USA	UCT	F	W	MSc CB	2007	1.5	Graduated	No	No	Yes
Ms	MacGregor	SA	UCT	F	W	MSc CB	2006	1.5	Graduated	No	Yes	Yes
Ms	Nupen	SA	UCT	F	W	MSc CB	2006	2	Graduated	Yes	Yes	Yes

Title	Surname	Citizenship	Institution	Gender	Race	Degree	1 <sup>st</sup> year	Throughput (years)	Status	CoE funding support level		
										Bursary	Running	Indirect
Ms	Okes	SA	UCT	F	W	MSc CB	2007	1.5	Graduated	Yes	Yes	Yes
Ms	Quayle	SA	UCT	F	W	MSc CB	2008		Incomplete	No	No	Yes
Ms	Schultz	Australia	UCT	F	W	MSc CB	2006	1.5	Graduated	No	Yes	Yes
Ms	Shaw	UK	UCT	F	W	MSc CB	2008		Incomplete	No	No	Yes
Ms	Thomas	UK	UCT	F	W	MSc CB	2006	1.5	Graduated	No	Yes	Yes
Mr	Bird	SA	UCT	M	W	MSc CB	2006	1.5	Graduated	No	No	Yes
Mr	Burnside	UK	UCT	M	W	MSc CB	2006	1.5	Graduated	No	No	Yes
Mr	Child	SA	UCT	M	W	MSc CB	2007	1.5	Graduated	Yes	Yes	Yes
Mr	Davies	SA	UCT	M	W	MSc	2008		Incomplete	Yes	Yes	Yes
Mr	Dures	SA	UCT	M	W	MSc CB	2008		Incomplete	No	No	Yes
Mr	Joseph	SA	UCT	M	W	MSc CB	2007	1.5	Graduated	Yes	No	Yes
Mr	Mann	SA	UCT	M	W	MSc CB	2007	1.5	Graduated	No	No	Yes
Mr	Meek	USA	UCT	M	W	MSc CB	2008		Incomplete	No	No	Yes
Mr	Menayas	USA	UCT	M	W	MSc CB	2008		Incomplete	No	No	Yes
Mr	Puttick	SA	UCT	M	W	MSc CB	2007	1.5	Graduated	No	No	Yes
Mr	Shelton	SA	UCT	M	W	MSc CB	2007	1.5	Graduated	No	No	Yes
Mr	Smit	SA	Wits	M	W	MSc	2007	2	Incomplete	Yes	Yes	Yes
Mr	Vincent	SA	UCT	M	W	MSc	2005	3	Graduated	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
Mr	Lubbe	SA	UCT	F	W	BSc Hons	2008	1	Graduated	Yes	Yes	Yes
Mr	Fyfe	SA	UCT	M	W	BSc Hons	2008	1	Graduated	Yes	Yes	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
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	SA 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	1
Dr	Groth	USA	A Mus Nat Hist	M	W	1
Dr	Hackett	USA	Chicago Field 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	SA 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

<b>Title</b>	<b>Surname</b>	<b>Citizenship</b>	<b>Institution</b>	<b>Gender</b>	<b>Race</b>	<b>% time spent working in CoE</b>
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
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

<b>Title</b>	<b>Surname</b>	<b>Position</b>	<b>Based at</b>	<b>Gender</b>	<b>Race</b>
Mrs	Buchanan	Administrator	UCT	F	W
Ms	Jansen	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 Tania Jansen was appointed as the CoE Senior Secretary in February 2008.

## OUTPUTS

### Books / Chapters in Books

Six contributions to published books were made during 2008. (see Appendix 1).

### Articles in peer-reviewed journals

A total of 70 articles were published in SCI-ranked journals during 2008 (see Appendix 1 for a complete listing).

### Published conference proceedings

No complete conference proceedings were authored by CoE members during 2008.

### Technical reports

No technical reports were produced. Six papers appeared in non-ISI-listed journals. See Appendix 1 for a complete listing.

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

9<sup>th</sup> Symposium of the Southern African Society for Systematic Biology (February, Bergville KZN) Bloomer, Crowe, Nupen & Mandiwana

SANBI Biodiversity Forum (March, Cape Town) Jane Turpie

Fourth Duerden Lecture (May, Rhodes University) Peter Ryan

Evolution 2008 Conference (June, Minneapolis) Angela Ribeiro

South African Marine Science Symposium (June, Cape Town) Jane Turpie

XX International Congress of Genetics (July, Berlin) Mareile Techow

SA Marine Science Symposium (July, UCT) Anja Teroerde

4<sup>th</sup> International Albatross & Petrel Conference (August, Cape Town) Ryan, Petersen, Wanless, Barquete, Jones, Techow, Vincent & Watkins

International Society for Behavioural Ecology (August, Cornell University, USA) Eising, Nelson-Flower, Ridley

13<sup>th</sup> International Hibernation Symposium (August, Swakopmund) Andrew McKechnie (co-organiser), Ben Smit

20<sup>th</sup> Biennial Congress of the SA Genetics Society (August, Sun City) Bloomer + whole research group

12<sup>th</sup> Pan-African Ornithological Congress (September, Goudini Spa) Hockey, Ryan, Crowe, Simmons, Spottiswoode, Chaska, Covas, Davies, Fuchs, Gazi, de Melo, Mills, Musvuugwa, Mzumara, Nupen, Pichegru, de Ponte, Wanless

XXVIIth Willi Hennig Society (October, Tucuman, Argentina) Crowe

10<sup>th</sup> Annual Library Symposium (November, Stellenbosch University) Koopman

### Conferences / meetings hosted

Prof. Tim Crowe hosted an Advanced Phylogenetics workshop at UCT

## **FINANCES**

### **Income and expenditure**

A copy of the 2008 Income and Expenditure Statement is attached to the Ernst & Young Audit Report.

Responses to the Audit Report explanations of non-compliance:

1. R5 900.00 Faculty contribution for Director's IT needs.
2. In reality the institutional support including academic \* support staff, CB course, IT & other facilities exceeds the contractual obligation of 10%
3. In terms of UCT Operating Policy, it is not possible to get interest on operating funds.



## Cash Flow analysis for 2008

### DST-NRF CoE Programme

Birds as Keys to Biodiversity Conservation at the Percy FitzPatrick Institute

### CASH FLOW ANALYSIS FOR THE 2008 FINANCIAL YEAR

DESCRIPTION	Jan-08	Feb-08	Mar-08	Apr-08	May-08	Jun-08	Jul-08	Aug-08	Sep-08	Oct-08	Nov-08	Dec-08	TOTAL	Annual Budget	VAR
<b>NRF</b>	1,123,600					1,123,600							2,247,200	2,247,200	
<b>Interest</b>	357,037												357,037	357,037	
<b>Other</b>	859,706												859,706	859,706	
<b>TOTAL INCOME</b>	2,340,343					1,123,600							3,463,943	3,463,943	
<b>Salaries</b>	-26,899	-37,722	-36,559	-39,113	-37,401	-37,401	-226,145	-37,401	-40,376	-37,401	-57,605	-42,492	-656,516	845,000	
<b>Student costs</b>	-115,000	-187,000	-57,000			-198,013			-70,000	-45,000	-93,000	-50,000	-815,013	1,026,000	
<b>Conferences &amp; related travel</b>		-25,462	-14,759	-10,530		-108,089	-23,927	-7,746	-12,334	-21,315	-15,108	-5,886	-245,156	205,000	
<b>Equipment</b>													0	0	
<b>Running</b>	-3,258	-95,741	-102,575	-325,132	-87,991	-66,628	-242,404	-83,936	-43,084	-106,004	-176,569	-85,229	-1,125,931	1,326,300	
<b>TOTAL EXPENSES</b>	-145,157	-345,926	-210,893	-82,156	-125,392	-410,132	-492,476	-129,083	-165,793	-209,720	-342,282	-183,607	-2,842,616	3,402,300	
<b>NET OUTCOME PROFIT/LOSS</b>	978,443	-345,926	-210,893	-82,156	-125,392	713,468	-492,476	-129,083	-165,793	-209,720	-342,282	-183,607	621,327		

Notes – this cash flow report:

1. shows actual expenditure only (excluding commitments) for all months
2. reflects the entire costs of the CoE, including satellite campuses
3. 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 (extracted from annual cash flow analyses).

Year	Income	Expenditure	Carry-forward
2004	R 2,025,067	R -158,533	R 1,866,534
2005	R 4,026,434	R -2,053,076	R 1,973,358
2006	R 4,153,458	R -2,507,744	R 1,645,714
2007	R 4,026,610	R -3,201,673	R 824,936
2008	R 3,463,943	R -2,842,616	R 621,327

Expenditure in 2008 was within budget and thus reflects a satisfactory carry-forward to 2009, considering that it is optimal to maximize the use of available funds. A small carry-forward is required to carry the CoE through the first month of each year before the first CoE payment for the year is made by the NRF.

## 2. Operating Budget

The abbreviated operating budget for 2009 is tabulated below. This reflects the budget administered by the host institution (UCT) for the Percy FitzPatrick Institute, DST/NRF Centre of Excellence.

INCOME	NRF CoE*	UCT**	Other***	TOTAL
Carry-over from 2008	653,428			
Operating income 2008	2,200,000	2,965,918	1,172,251	
Student support		24,000	341,976	
Investment income			1,700,000	
Contract income			-	
<b>TOTAL</b>	<b>2,853,428</b>	<b>2,989,918</b>	<b>3,214,227</b>	<b>9,057,573</b>
<b>EXPENDITURE</b>				
Salaries	-512,982	-2,761,262	-445,012	
Student costs	-1,013,212	-24,000	-341,976	
Conferences	-71,913		-100,000	
Equipment			-9,375	
Running	-1,255,320	-204,656	-1,945,000	
<b>TOTAL</b>	<b>-2,853,427</b>	<b>-2,989,918</b>	<b>-2,841,363</b>	<b>-8,684,708</b>
<b>Carry forward to 2009</b>				<b>372,865</b>

\* NRF/CoE - income based on carry forwards plus R2.2m: expenditure based on budget, proportionally to income.

\*\* UCT – income based on confirmed income and projected salaries; expenditure assumed to equal income.

\*\*\* Other – income based on confirmed income, estimate of interest and predicted (10%) on bursaries; expenditure based on some known expenses – most following 2008 pattern where known.

## Appendix 1: Publications for 2008 (CoE members in bold type)

### Articles in SCI-ranked journals (67):

Ansorge, I.J., Roman, R., Durgadoo, J.V., **Ryan, P.G.**, Dlamini, L., Gebhardt, Z., Rainier, S., Smith, M. Mtonsti, T. & Lutjeharms, J.R.E. 2008. The first oceanographic survey of the Conrad Rise. *South African Journal of Science* 104: 333-336.

Ashdown, R.A.M. & **McKechnie, A.E.** 2008. Environmental correlates of Freckled Nightjar (*Caprimulgus tristigma*) activity in a seasonal, subtropical habitat. *Journal of Ornithology* 149:615-619.

**Cockburn, A.** & Double, M.C. 2008 Cooperatively breeding superb fairy-wrens show no facultative manipulation of offspring sex ratio despite plausible benefits. *Behavioural Ecology and Sociobiology* 62:681-688.

**Cockburn, A.**, Osmond, H.L., Mulder, R.A., Double, M.C. & Green, D.J. 2008. Demography of male reproductive queues in cooperatively breeding superb fairy-wrens *Malurus cyaneus*. *Journal of Animal Ecology* 77:297-304.

**Cockburn, A.**, Osmond, H.L. & Double, M.C. 2008. Swingin' in the rain: condition dependence and sexual selection in a capricious world. *Proceedings of the Royal Society B* 275:605-612

**Cockburn, A.**, Sims, R.A., Osmond, H.L., Green, D.J., Double, M.C. & Mulder, R.A. 2008. Can we measure the benefits of help in cooperatively breeding birds: the case of superb fairy-wrens *Malurus cyaneus*? *Journal of Animal Ecology* 77:430-438

Coleman, R.A. & **Hockey, P.A.R.** 2008. Effects of an alien invertebrate species and wave action on prey selection by African black oystercatchers (*Haematopus moquini*). *Austral Ecology* 33:232-240

**Covas, R. & du Plessis, M.** & Doutrelant, C. 2008. Helpers in colonial cooperatively breeding sociable weavers *Philetairus socius* contribute to buffer the effects of adverse breeding conditions. *Behavioral Ecology and Sociobiology* 63:103-112

**Cumming, G. S., Hockey P.A.R, Bruinzeel L.W. & Du Plessis, M.A.** 2008. Wild bird movements and avian influenza risk mapping in southern Africa. *Ecology and Society* 13(2): 26

Cunningham, G.B.; Strauss, V. & **Ryan, P.G.** 2008. African penguins (*Spheniscus demersus*) can detect dimethyl sulphide, a prey-related odour. *Journal of Experimental Biology* 211(19):3123-3127

Daniels, A.E. & **Cumming, G.S.** 2008. conversion or conservation? Understanding wetland change in Northwest Costa Rica. *Ecological Applications* 18(1):49-63

**Davies, O.R.**, Junker, K., Jansen, R., **Crowe, T.M.** & Boomker, J. 2008. Age- and sex-based variation in helminth infection of helmeted guineafowl (*Numida meleagris*) with comments on Swainson's spurfowl (*Pternistis swainsonii*) and Orange River francolin (*Scleroptila levaillantoides*). *South African Journal of Wildlife Research* 38(2):163-170

**Dean, W.R.J. & Milton, S.J.** 2008. Changes in the species composition of a Karoo avifauna over time: a case study from Deelfontein, South Africa. *Ostrich* 79(2):227-234

de Hierro, M.D.G.L. & **Ryan, P.G.** 2008. Nest defence and egg rejection in the house sparrow (*Passer domesticus*) as protection against conspecific brood parasitism. *Behaviour* 145: 949-964

Dyke, G.J. & **Crowe, T.M.** 2008. Avian paleontology: opinions and quasi-phenetics versus characters and cladistics. *Cladistics* 24:77-81

**Eising CM**, Pavlova D, Groothuis TGG, Eens, M. & Pinxten, R. 2008. Maternal yolk androgens in European starlings: affected by social environment or individual traits of the mother? *Behaviour* 145(1):51-72

Enstipp, M.R., **Grémillet, D.** & Jones, D.R. 2008. Heat increment of feeding in double-crested cormorants (*Phalacrocorax auritus*) and its potential for thermal substitution. *Journal of Experimental Biology* 211:49-57

Fjeldså, J. & **Bowie, R.C.K.** 2008 New perspectives on the origin and diversification of Africa's forest avifauna. *African Journal of Ecology* 46(3):235-247

**Fuchs, J.**, Ericson, P.G.P. & Pasquet, E. 2008. Mitochondrial phylogeographic structure of the white-browed piculet (*Sasia ochracea*): cryptic genetic differentiation and endemism in Indochina. *Journal of Biogeography* 35:565-575

**Fuchs J.**, Pons J.-M., Ericson P.G.P., Bonillo, C., Couloux, A. & Pasquet E., 2008. Molecular support for a rapid cladogenesis of the woodpecker clade Malarpicini, with further insights into the genus *Picus* (Piciformes: Picinae). *Molecular Phylogenetics and Evolution* 48: 34-46.

**Fuchs, J.**, Pons, J.-M, Goodman, S.M., Bretagnolle, V. **Melo, M., Bowie, R.C.K.**, Currie, D., Safford, R., Virani, M.Z, Thomsett, S., Hija, A., Cruaud, C. & Pasquet, E. 2008. Tracing the colonisation history of the Indian Ocean scops-owls (Strigiformes: *Otus*) with further insights into the spatio-temporal origin of the Malagasy avifauna. *BMC. Evolutionary Biology* 8:Article 197

Göth, A., **Eising, C.M.**, Herberstein, M.E. & Groothuis, T.G.G. 2008 Consistent variation in yolk androgens in the Australian Brush-turkey, a species without sibling competition or parental care. *General and Comparative Endocrinology* 155(3): 742-748

Grandgeorge, M., Wanless, S. Dunn, T.E., Maumy, M., Beaugrand, G. & **Grémillet, D.** 2008. Resilience of the British and Irish seabird community in the twentieth century. *Aquatic Biology* 4: 187–199

**Grémillet, D.** 2008. Paradox of flying to meetings to protect the environment. *Nature* 455:1175

**Grémillet, D.**, Lewis, S., Drapeau, L., van der Lingen, C. D., Huggett, J.A., Coetzee, J.C., Verheye, H.M., Daunt, F., Wanless, S. & **Ryan, P.G.** 2008. Spatial match-mismatch in the Benguela upwelling zone: should we expect chlorophyll and SST to predict marine predator distributions? *Journal of Applied Ecology* 45:610-621

**Grémillet, D., Pichegru, L.**, Kuntz, G., Woakes, A.G., Wilkinson, S., Crawford, R.J.M. & **Ryan, P.G.** 2008. A junk-food hypothesis for gannets feeding on fishery waste. *Proceedings of the Royal Society of London B* 275: 1149-1156

Hackett, S.J., Kimball, R.T., Reddy, S., **Bowie, R.C.K.**, Braun, E.L., Braun, M.J., Chojnowski, J.L., Cox, W. Andrew, Kin-Lan, Harshman, J., Huddleston, C.J., Marks, B.D.,

Miglia, K.J., Moore, W.S., Sheldon, F.H., Steadman, D.W., Witt, C.C. & Yuri, T. 2008. A phylogenomic study of birds reveals their evolutionary history. *Science* 320(5884):1763-1768

Harrison, J.A., Underhill, L.G. & **Barnard, P.** 2008. The seminal legacy of the Southern African Bird Atlas Project. *South African Journal of Science* 104:82-84

Harshman, J., Braun, E.L., Braun, M.J., Huddleston, C.J., **Bowie, R.C.K.**, Chojnowski, J.L., Shannon J. Hackett, S.J., Han, K.-L., Rebecca T. Kimball, R.T., Marks, B.D., Miglia, K.J., Moore, W.S., Reddy, S., Sheldon, F.H., Steadman, D.W., Scott J. Steppan, S.J., Witt, C.C. & Yuri, T. 2008. Phylogenomic evidence for multiple losses of flight in ratite birds. *Proceedings of the National Academy of Sciences of the USA* 105:13462-13467

Houlihan, J. E., Cottenie, K., **Cumming, G. S.**, Currie, D. J., Findlay, C. S., Gaedke, U., Legendre, P., Magnuson, J. J., McArde, B. H., Stevens, R. D., Woiwod, I. P. & Wondzell, S. M. 2008. The utility of covariances: a response to Ranta et al. *Oikos* 117:1912-1913

Irestedt, M. **Fuchs, J.**, Jønsson, K.A., Ohlson, J.I., Pasquet E. & Ericson, P.G.P. 2008. The systematic affinity of the enigmatic *Lamprolia victoriae* (Aves: Passeriformes)- an example of avian dispersal between New Guinea and Fiji over Miocene intermittent land bridges? *Molecular Phylogenetics and Evolution* 48:1218-1222

Jetz, W., Freckleton, R.P. & **McKechnie, A.E.** 2008. Environment, migratory tendency, phylogeny and basal metabolic rate in birds. *Plos One* 3:e3261:9pp

**Johansson, U.S.**, Fjeldså, J. & **Bowie, R.C.K.** 2008. Phylogenetic relationships within Passerida (Aves: Passeriformes): a review and a new molecular phylogeny based on three nuclear intron markers. *Molecular Phylogenetics and Evolution* 48:858-876

**Johansson, U.S.**, **Bowie, R.C.K.**, Hackett, S.J. & Schulenberg, T.S. 2008. The phylogenetic affinities of Crossley's babbler (*Mystacornis crossleyi*): adding a new niche to the vanga radiation of Madagascar. *Biology Letters* 4:677-680

Jonsson, K.A., Irestedt, M., **Fuchs, J.**, Ericson, P.G., Christidis, L., **Bowie, R.C.K.**, Norman, J.A., Pasquet, P.E. & Fjeldsa, J. 2008. Explosive avian radiations and multi-directional dispersal across Wallacea: Evidence from the Campephagidae and other Crown Corvida (Aves) *Molecular Phylogenetics and Evolution* 47: 221-236

Junker, K., **Davies, O. R.**, Jansen, R., **Crowe, T. M.** & Boomker, J. 2008. Nematodes from Swainson's spurfowl *Pternistis swainsonii* and an Orange River francolin *Scleroptila levaillantoides* in Free State Province, South Africa, with a description of *Tetrameres swainsonii* n. sp (Nematoda: Tetrameridae) . *Journal of Helminthology* 82:365-371

Kabat, A. P., Blackburn, T. M., **McKechnie, A. E.** & Butler, P.J. 2008. Phylogenetic analysis of the allometric scaling of therapeutic regimes for birds. *Journal of Zoology* 275:359-367

Kamler, J.F., **Suinyuy, T.N.** & Goulding, W. 2008. Cattle Egret and Common Ostrich associations in South Africa. *Ostrich* 79: 105-106

Le Bohec, C., Durant, J.M., Gauthier-Clerc, M., Stenseth, N.C., Park, Y.H., Pradel, R., **Grémillet, D.**, Gendner, J-P. & Le Maho, Y. 2008. King penguin population threatened by Southern Ocean warming. *Proceedings of National Academy of Sciences USA* 105: 2493-2497.

Le Bohec, C., Durant, J.M., Gauthier-Clerc, M., Stenseth, N.C., Park, Y.H., Pradel, R., **Grémillet, D.**, Gendner, J-P. & Le Maho, Y. 2008. Reply to Barbraud *et al.*: King penguin

population threatened by Southern Ocean warming. . Proceedings of National Academy of Sciences USA 105:E39

**Lloyd, P.** 2008. Adult survival, dispersal and mate fidelity in the White-fronted Plover *Charadrius marginatus*. Ibis 150:182-187

Lokugalappatti L.G.S, Feldheim K.A., Sellas A.B. & **Bowie, R.C.K.** 2008. Isolation and characterization of 10 tetranucleotide microsatellite loci from the yellow-streaked greenbul (*Phyllastrephus flavostriatus*) and cross-species amplification in four closely related taxa Molecular Ecology Resources 8:622-624

**McKechnie, A.E.** 2008. Phenotypic flexibility in basal metabolic rate and the changing view of avian physiological diversity: a review. Journal of Comparative Physiology B 178:235-247

Mellanby, R.J., Ross, B., Watt, A., Wondafrash, M., Ewnetu, M., Broadhurst, C., Critchlow, R., Dadesa, A., Deas, T., Enawgaw, C., Gebremedhin, B., Graham, E., MacLean, S., McKean, M., Collar, N.J. & **Spottiswoode, C.N.** 2008. Distribution, abundance and habitat preferences of White-tailed Swallow *Hirundo megaensis* and the Ethiopian Bush-crow *Zavattariornis stresemanni*, two southern Ethiopian endemics. Bird Conservation International 18:395-412

Møller, A.P., Garamszegi, L.Z. & **Spottiswoode, C.N.** 2008. Genetic similarity, breeding range and sexual selection. Journal of Evolutionary Biology 21:213-225

**Okes, N.C., Hockey, P.A.R. & Cumming, G.S.** 2008. Habitat use and life history as predictors of bird responses to habitat change. Conservation Biology 22:151-162

Prinsloo, H., Harley, V., Reilly, B. & **Crowe, T.M.** 2008. The diet of helmeted guineafowl (*Numida meleagris*) in the Riemland of the north-eastern Free State, South Africa. South African Journal of Wildlife Research 38:88-92

Radford, A.N. & **Ridley, A.R.** 2008. Close calling regulates spacing between foraging competitors in the group-living pied babblers. Animal Behaviour 75:519-527

**Raihani, N.J. & Ridley, A.R.** 2008. Experimental evidence for teaching in wild pied babblers. Animal Behaviour 75:36-11

**Raihani, N.J. & Ridley, A.R.** Browning, L.E., **Nelson-Flower, M.J.** & Knowles, S. 2008. Juvenile female aggression in cooperatively breeding Pied Babblers: causes and contexts. Ethology 114:452-458

**Raihani, N.J. & Ridley, A.R.** 2008. Parental aggression against dependent young results in task partitioning in a cooperatively breeding bird. Biology Letters 4: 23-26

**Ridley, A.R.** 2008. Book Review: Handbook of the birds of the world. Volume 12: Picathartes to Tits and Chickadees. Ostrich 79(2):249-250

**Ridley, A.R. & Raihani, N.J.** 2008. Task partitioning increases reproductive output in a cooperative bird. Behavioral Ecology 19:1136-1142

**Ridley, A.R., Raihani, N.J. & Nelson-Flower, M.J.** 2008. The cost of being alone: the fate of floaters in a population of cooperatively breeding pied babblers *Turdoides bicolor*. Journal of Avian Biology 39:389-392

Ritz, M.S., Millar, C., Miller, G.D., Phillips, R.A., **Ryan, P.G.**, Sternkopf, V. , Liebers-Helbig, D. & Peter, H.-U. 2008. Phylogeography of the southern skua complex—rapid colonization of the southern hemisphere during a glacial period and reticulate evolution. *Molecular Phylogenetics and Evolution* 49:292-303

**Ryan, P.G.** 2008. Seabirds indicate changes in the composition of plastic litter in the Atlantic and south-western Indian Oceans. *Marine Pollution Bulletin* 56:1406-1409

**Ryan P.G.** 2008 Taxonomic and conservation implications of ecological speciation in *Nesospiza* buntings on Tristan da Cunha. *Bird Conservation International* 18: 20-29

**Ryan, P.G.** & Visagie, J. 2008. African Black Oystercatchers feeding in a terrestrial habitat. *Ostrich* 79(2):243

**Ryan, P.G.** & Watkins, B.P. 2008. Response: Estimating seabird bycatch by fisheries and its impact on seabird populations. *Animal Conservation* 11:260-262

**Ryan, P.G.**, Sommer, E. & Breytenbach, E. 2008. Giant petrels *Macronectes* hunting Northern Rockhopper Penguins *Eudyptes moseleyi* at sea. *Ardea* 96:129-134

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

Name	Degree	1st year	Depart year	Gender	Race	Publications			
						1 <sup>st</sup>	2 <sup>nd</sup>	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	7	9	1
Turpie	Staff	2004		F	W	1	1	2	
Bowie	Staff	2004	2007	M	W	5	19		1
Crowe	Staff	2004		M	W	2	19		2
Cumming	Staff	2006		M	W	5	5	1	
Dean	Staff	2004	2007	M	W	6	11	18	1
Du Plessis	Staff	2004	2007	M	W	2	14		14
Hockey	Staff	2004		M	W		11	3	19
Lloyd	Staff	2004		M	W	8	7		2
McKechnie	Staff	2004		M	W	5	3		15
Ryan	Staff	2004		M	W	14	27	11	60
Covas	Postdoc	2004	2006	F	W	1	4		
Eising	Postdoc	2005		F	W	1	1		
Ridley	Postdoc	2005		F	W	8	8		3
Roxburgh	Postdoc	2005	2007	F	W	2		1	2
Spottiswoode	Postdoc	2005		F	W	6	4	1	2
Bruinzeel	Postdoc	2007		M	W		1		
Delport	Postdoc	2005	2007	M	W	3	2		1
Fuchs	Postdoc	2007		M	W	3	2		1
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	3	8	1
Raihani	PhD	2004		F	W	5	3		1
Seymour	PhD	1999	2006	F	W	2	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	5	5
Oatley	PhD	2005		M	W		1		
Wanless	PhD	2004	2007	M	W	4	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				

Name	Degree	1st year	Depart year	Gender	Race	Publications			
						1 <sup>st</sup>	2 <sup>nd</sup>	unrated	popular
Biggs	MSc	2004	2006	M	W				2
Vincent	MSc	2005		M	W				
Smit	MSc	2007		M	W				1
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		1		
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			2	
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	1			
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				

Name	Degree	1st year	Depart year	Gender	Race	Publications			
						1 <sup>st</sup>	2 <sup>nd</sup>	unrated	popular
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 <sup>st</sup> reg.	Year grad.	Months to 1 <sup>st</sup> job	First position // current position if different
Dr	Seymour	SA	F	W	PhD	1999	2006		Ecologist, SANBI
Dr	Techow	German	F	W	PhD	2004	2007		Postdoctoral fellow, UCT
Dr	Barnes	SA	M	W	PhD	1998	2007	0	Self-employed in bird-watching tourism industry
Dr	Loewenthal	SA	M	W	PhD	1998	2007		Postdoctoral fellow, UCT, Writing up research papers
Dr	Wanless	SA	M	W	PhD	2004	2007	6	Seabird Conservation Officer, BirdLife SA
Dr	Petersen	SA	F	W	PhD	2004	2008	0	BirdLife/WWF Responsible Fisheries Programme
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 SANBI
Ms	Wistebaar	SA	F	B	MSc CB	2007	2008		SANBI
Mr	Babiker	Sudan	M	B	MSc CB	2007	2008		Doctoral student, Zoology Dept, UCT
Mr	Boundja	D Rep Congo	M	B	MSc CB	2006	2007	11	Technical Assistant for Wildlife Conservation Society Congo Program (DRC)
Mr	Chaudry	Pakistan	M	B	MSc CB	2007	2008		
Mr	Kaliba	Malawi	M	B	MSc CB	2005	2006	0	Senior Ornithologist & Acting Director, 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, DEAT
Mr	Osano	Kenya	M	B	MSc CB	2004	2005	1	Programme Manager, Improving Livelihoods Project Co-ordinator // Sauv� Scholar, McGill Univ.//PhD McGill Univ.
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, CT
Ms	Da Silva	Canada	F	W	MSc CB	2004	2005	8	PhD student Univ. Stellenbosch
Ms	Farmer	UK	F	W	MSc CB	2004	2005		PhD student
Ms	Fox	SA	F	W	MSc CB	2005	2006		Contract SANParks//C4 Eco Solutions - partner
Ms	Gordon	SA	F	W	MSc CB	2006	2007		Intern contract position with WWF-SA
Ms	Hampton	SA	F	W	MSc	2005	2008		
Ms	Hempson	SA	F	W	MSc CB	2007	2008		
Ms	Hill	SA	F	W	MSc CB	2006	2007		
Ms	Humphrey	SA	F	W	MSc CB	2007	2008		
Ms	Jenkins	NZ	F	W	MSc CB	2006	2007		
Ms	La Grange/Potts	SA	F	W	MSc CB	2007	2008		Coordinator: EWT Riparian habitat Rehabilitation project
Ms	Lannas	Zimbabwe	F	W	MSc	2007	2008		
Ms	Lauret-Stepler	Reunion	F	W	MSc CB	2005	2006		
Ms	Lipsev	USA	F	W	MSc CB	2007	2008		Internship, Bureau of Land Management, Montana, USA
Ms	MacGregor	SA	F	W	MSc CB	2006	2007	8	Vet & Research Officer, Island Cons Soc, 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		PhD student, PFIAO, UCT
Ms	Okes	SA	F	W	MSc CB	2007	2008		BirdLife/WWF Responsible Fisheries Programme
Ms	Owen	UK	F	W	MSc CB	2004	2005	0	Global Media Communication Journalist, Save Our Seas
Ms	Schultz	Australia	F	W	MSc CB	2006	2007		Maternity leave
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 // PostDoctoral Fellow, U.S
Ms	Stephen	SA	F	W	MSc CB	2005	2006	0	Ecologist, Earth-Touch
Ms	Thomas	UK	F	W	MSc CB	2006	2007		Principal Technical Advisor, WCS Programme, Congo
Ms	Vickers	Canada	F	W	MSc CB	2005	2006		
Mr	Bird	SA	M	W	MSc CB	2006	2007		PhD student, Zoology, UCT
Mr	Burnside	UK	M	W	MSc CB	2006	2007		PhD student, Bath Univ (UK)
Mr	Joseph	SA	M	W	MSc CB	2007	2008		
Mr	Little	SA	M	W	MSc CB	2004	2005	1	PhD student, PFIAO, UCT
Mr	Lowe	UK	M	W	MSc CB	2004	2005		

Mr	Mader	SA	M	W	MSc CB	2004	2005	0	Cap build for local govt // Technical Coord Local Action for Biodiv (LAB), ICLEI-Local Govt for Sustainability initiative.
Mr	Mann	SA	M	W	MSc CB	2007	2008		Environmental consultant, BolandEnviro
Mr	Puttick	SA	M	W	MSc CB	2007	2008		
Mr	Scovronick	USA	M	W	MSc CB	2005	2006		MSc Public Health student, U. London
Mr	Shelton	SA	M	W	MSc CB	2006	2007	8	Temping as Environmental Control Officer
Mr	Vincent	SA	M	W	MSc	2005	2008		
Mr	Bewana	SA	M	B	BSc Hons	2006	2007		CB MSc student, UCT
Ms	Braae	SA	F	W	BSc Hons	2006	2006		
Ms	Brown	SA	F	W	BSc Hons	2007	2007		
Ms	Laird	SA	F	W	BSc Hons	2007	2007		MSc student, Zoology Dept, UCT
Ms	Lubbe	SA	F	W	BSc Hons	2006	2006		Environmental consultant, Ecopartners
Ms	Lyons	SA	F	W	BSc Hons	2006	2006		MSc student, Zoology Dept, UCT
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 CB 2007-2008 / PhD student, Cambridge University
Mr	Fyfe	SA	M	W	BSc Hons	2008	2008		
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 <sup>st</sup> 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	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	2004	No	No	Yes
Ms	Raihani	UK	Cambridge	F	W	PhD	2004	No	No	Yes
Ms	Ribeiro	Portugal	UCT	F	W	PhD	2007	No	Yes	Yes
Ms	Nupen	SA	UCT	F	W	PhD	2008	Yes	Yes	Yes
Mr	Cohen	SA	UCT	M	W	PhD	1999	No	No	Yes
Mr	Little	SA	UCT	M	W	PhD	2007	No	No	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 CB	2008	No	No	Yes
Ms	Musvuugwa	Zimbabwe	UCT	F	B	MSc CB	2008	No	No	Yes
Ms	Mzumara	Malawi	UCT	F	B	MSc CB	2008	No	Yes	Yes
Ms	Wistebaar	SA	UCT	F	B	MSc CB	2007	No	No	Yes
Mr	Babiker	Sudan	UCT	M	B	MSc CB	2007	No	No	Yes
Mr	Bewana	SA	UCT	M	B	MSc CB	2008	Yes	Yes	Yes
Mr	Chaudhry	Pakistan	UCT	M	B	MSc CB	2007	No	No	Yes
Mr	Mutumi	Zimbabwe	UCT	M	B	MSc	2008	No	No	Yes
Mr	Ndlovu	Zimbabwe	UCT	M	B	MSc	2007	Yes	Yes	Yes
Ms	Cordingley	Kenya	UCT	F	W	MSc CB	2008	No	Yes	Yes

Ms	Hamann	Germany	UCT	F	W	MSc CB	2008	Yes	Yes	Yes
Ms	Hampton	SA	UCT - ADU	F	W	MSc	2005	Yes	No	Yes
Ms	Hempson	SA	UCT	F	W	MSc CB	2007	No	No	Yes
Ms	Humphrey	SA	UCT	F	W	MSc CB	2007	Yes	No	Yes
Ms	La Grange	SA	UCT	F	W	MSc CB	2007	Yes	No	Yes
Ms	Lannas	Zimbabwe	UCT	F	W	MSc	2007	No	No	Yes
Ms	Lipsey	USA	UCT	F	W	MSc CB	2007	No	No	Yes
Ms	Okes	SA	UCT	F	W	MSc CB	2007	Yes	Yes	Yes
Ms	Quayle	UK	UCT	F	W	MSc CB	2008	No	No	Yes
Ms	Shaw	UK	UCT	F	W	MSc CB	2008	No	No	Yes
Mr	Child	SA	UCT	M	W	MSc CB	2007	Yes	Yes	Yes
Mr	Davies	SA	UCT	M	W	MSc	2008	No	No	Yes
Mr	Dures	SA	UCT	M	W	MSc CB	2008	No	No	Yes
Mr	Flowers	UK	UCT	M	W	PhD	2007	No	Yes	Yes
Mr	Joseph	SA	UCT	M	W	MSc CB	2007	Yes	No	Yes
Mr	Mann	SA	UCT	M	W	MSc CB	2007	No	No	Yes
Mr	Meek	USA	UCT	M	W	MSc CB	2008	No	No	Yes
Mr	Menayas	USA	UCT	M	W	MSc CB	2008	No	No	Yes
Mr	Puttick	SA	UCT	M	W	MSc CB	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 2008, with numbers expected for 2009.** These figures include students co-supervised by CoE members, but registered at non-collaborating institutions.

<b>Member category</b>	<b>Gender</b>	<b>Race</b>	<b>Number in 2008</b>	<b>Number in 2009</b>
Project leader	F	B	2	3
	F	W	3	3
	M	W	9	9
	Total		14	15
Postdoc	F	W	5	5
	M	B		1
	M	W	4	6
	Total		9	12
PhD	F	B	1	2
	M	B	3	3
	F	W	6	6
	M	W	4	3
	Total		14	14
MSc	F	B	4	5
	M	B	5	7
	F	W	11	8
	M	W	9	6
	Total		29	26
BSc Honours	F	W	-	
	M	W	2	1
	Total		2	1