

## Ian Richard SWINGLAND

### Current Career Profile:

- 1999-life** Emeritus Professor of Conservation Biology, *The Durrell Institute of Conservation & Ecology, University of Kent*
- 1989-life** Honorary Life Member and former President (1991-2005), *British Chelonia Group, UK*
- 1979-present** European Member & Tortoise and Freshwater Turtle Specialist Group, *IUCN Species Survival Commission*

### Honours and Awards:

- 2005** Honorary DSc, *University of Kent*
- 2002** Honorary Fellow, *Commonwealth Agricultural Bureau International*
- 2001** Freedom of City of London
- 2000** Honorary Life Member, *Durrell Wildlife Conservation Trust*
- 1970-1973** Foreign and Commonwealth Office Scholarship, *University of Edinburgh, UK*
- 1970-1971** Throgmorton Trotman Senior Exhibition, *University of Edinburgh, UK*

### Personal Information:

Marital status: **Divorced**

Nationality: **British**

Date of birth: **2 November 1946**

Place of Birth: **London**

### Address:

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### Education:

- 1953-1965** Haberdashers' Aske's School
- 1966-1969** Queen Mary College, University of London
- 1969-1973** University of Edinburgh
- 1974-1979** University of Oxford

### Qualifications:

- 1969** Bachelor of Science (Zoology)
- 1973** Doctor of Philosophy (Ecology)
- 2005** Doctor of Science *in honoris causa*

### Honorary Appointments:

- 2006-2012** **Member**, Advisory Board for the Centre for Biodiversity and Restoration Ecology, Victoria.  
*The Centre for Biodiversity and Restoration Ecology identifies and researches the restoration of depleted populations, species and communities in ecosystems that have been impacted by human activity.*
- 2005-2019** **Patron**, Hadlow College, UK
- 2005-2008** **Director**, Durrell Wildlife Conservation Trust, UK  
*International captive breeding and habitat rehabilitation charity. Elected Honorary Life Member 2000.*
- 2005-2008** **Director**, Fauna & Flora International, UK  
*International conservation charity.*
- 2004-2008** **Director**, Derwent Forest Board, Cumbria, UK  
*Allerdale Council planned to buy the 1,050 acre former military depot - the largest brown field site in the Europe - from the Ministry of Defence later this year. It must first secure around £26 million from the North West Development Agency to fund the massive clean-up programme. West Lakes Renaissance (WLR) will then over-see the development of the site, known locally as the Dump, on behalf of Allerdale. Renamed Derwent Forest, the site will be turned into a massive forest park with 30 kilometres of paths and cycle ways, a visitor centre and a wind farm. Further exciting developments encompassing Olympic training, life style facilities, food co-operatives, local well-provenanced produce, specialised hotels/study accommodation, spas, restaurants, biodiversity conservation, sports and exercise facilities, alternative technologies and medicine, healthy living and eating, exercise methods which fit in with the individuals, better agriculture, cleaner food, better products, more inexpensive way of constructing buildings for business and living, which need less energy and use local materials, are all being consider for the future.*
- 2002-2003** **Chairman, International Board of Trustees**, Iwokrama International Centre for Rain Forest Conservation and Development, Commonwealth and Guyana.  
*"To promote the conservation and the sustainable and equitable use of tropical rain forests in a manner that will lead to lasting ecological, economic and social benefits to the people of Guyana and to the world"*

*in general, by undertaking research, training, and the development and dissemination of technologies.” Under HRH The Prince of Wales, and appointed by the Secretary General of the Commonwealth and the President of Guyana to be Chairman of the International Board of Trustees, Iwokrama International Centre for Rain Forest Conservation and Development, the largest biodiversity project belonging to the Commonwealth. Nine months after appointment Swingland turned it from certain bankruptcy to increasing self-sufficiency.*

- 2000-2020** **Patron, & former Chairman & Trustee 2000-2014**, The Wallacea Trust.  
*The Wallacea Trust funded projects seek to empower communities and individuals to develop successful commercially viable enterprises linked to the protection of biodiversity. Funding for nature conservation projects often includes provision of alternative livelihoods but in many cases these alternatives are not then linked to enhanced protection of the wildlife and habitats. The Wallacea Trust is unique in pioneering the concept of tying enterprise development and investment to contracts with the communities agreeing to alternative means of livelihood.*
- 2000-2009** **Member**, Darwin Expert Committee, UK Government  
*Appointed by the Secretary of State for Environment, Food and Rural Affairs; the Darwin Initiative assists countries that are rich in biodiversity but poor in financial resources to meet their objectives under one or more of the three major biodiversity Conventions: the Convention on Biological Diversity (CBD); the Convention on International Trade in Endangered Species of Wild Flora and Fauna (CITES); and the Convention on the Conservation of Migratory Species of Wild Animals (CMS), through the funding of collaborative projects which draw on UK biodiversity expertise.*
- 1999-2009** **Director Emeritus & former Trustee**, Earthwatch Institute, UK  
*Promotes sustainable conservation of natural resources and cultural heritage by supporting people to assist in scientific field research and education throughout the world.*
- 1999-2001** **Scientific Advisor**, Foreign and Commonwealth Office, London  
*Advise on all aspects of biodiversity policy and projects.*
- 1999-2007** **Special Advisor**, Brogdale Horticultural Trust, UK  
*Conservation and research in fruit. Home of The National Fruit Collection.*
- 1999-2000** **Trustee**, Friends of Conservation, UK  
*Worldwide conservation charity aimed at biodiversity conservation and the benefits to local people especially around protected areas.*
- 1999-2014** **Patron & former Chairman**, Board of Trustees, The Durrell Trust of Conservation Biology, UK  
*Raised the funds for this charity since 1991 when it was founded to support The Durrell Institute*
- 1998-2001** **Visiting Professor of Conservation Biology**, Manchester Metropolitan University, UK
- 1997-2001** **Visiting Professor of Conservation Sciences & Auckland Foundation Fellow**, University of Auckland, New Zealand
- 1997-2014** **Advisor**, Loro Parque Foundation, Spain  
*Advisor to a Foundation that disburses some \$1m per annum for parrot conservation worldwide*
- 1996-1999** **Council**, Zoological Society of London
- 1994-1996** Member, Animal Welfare and Conservation Committee,
- 1996-2000** Member, Conservation & Scientific Committee
- 1996-2000** **Visiting Professor of Conservation**, Dipartimento di Biologia Animale e Genetica, Università di Firenz  
*Lecture and plan a European MSc in Biodiversity Management. Supported by Italian Government and Florence University*
- 1993-1994** **Judge**, Pfizer Environmental Art Prize for Kent Schools
- 1993-1995** **Scientific Advisory Committee**, Endangered Reptile Center, Canada
- 1992-present** **Trustee**, Biodiversity Foundation for Africa  
*Zimbabwe-based foundation with ongoing projects concerned with strengthening capacity and institutional ability to conserve biodiversity on the continent.*
- 1990-1995** **Council**, Royal Society for the Prevention of Cruelty to Animals
- 1985-1990** **Chairman**, RSPCA Wild Animals Advisory Committee
- 1993-1995** **Vice Chairman**, RSPCA Scientific, Technical and Academic Committee
- 1989-2010** **Founder & former Vice President**, The Herpetological Conservation Trust, UK (now Amphibian & Reptile Conservation)  
*Established the leading NGO in Europe in reptile and amphibian conservation. Raised the endowment and funds. Currently own or tenants 2000 ha of UK with reserves of some £4m and a permanent staff of 21 working throughout Europe.*
- 1989-present** **Honorary Life Member and President**, British Chelonia Group, UK  
*Dedicated to the conservation of chelonians.*
- 1989-1998** **Founder and co-Editor in Chief**, “Biodiversity and Conservation”  
*Conceived and co-founded this international monthly peer-reviewed scientific journal concerned with the natural and social sciences that are relevant to biodiversity conservation and sustainable utilisation. Vol 1:1 was March 1992*
- 1989-1996** **Patron**, Gaia Quest
- 1989-1995** **Judge**, Kent County Council, Industry in Kent Environment Award
- 1987-2010** **Research Associate**, National Museum of Natural History, Smithsonian Institution USA

**1986-1987** **Visiting Professor of Biology & Senior Research Fellow**, Department of Biology & Museum of Zoology, University of Michigan, USA  
*For research on the evolution of egg size and sex determination*

**1985-1993** **Council and Committees**, Fauna & Flora International

**1985-1989** **Director, First World Congress of Herpetology**  
*Appointed by World Congress of Herpetology to organise, raise funds and host the first and largest congress of herpetologists ever mounted in September 1989.*

**1985-1995** **Commissioning Consultant** for Ecology, Chapman & Hall

**1984-present** **Patron**, Soci t  d'Observation et Protection des Tortues du Maure (SOPTOM), France  
*Research work under my direction on Hermann's tortoise, initially funded by the UK Natural Environment Research Council stimulated founding of a self-funding NGO, which initially conserved tortoises through income from tourists but has expanded the model to other countries and over a wider interest in conserving entire habitats.*

**1984-2007** **Governor**, The Powell Cotton Museum, Kent, UK  
*The largest collection of African zoological and ethnobiological material in Europe*

**1980-present** **Founding Member & Council**, RURAL (Responsible Use of Resources in Agriculture and on the Land)  
*Group of five that established an organisation concerned with using land with greater sensitivity – lower inputs, maintain financial margins, more conservation. Invented the concept of 'set-aside' which has been badly handled by bureaucrats. Now the 'think tank' for farmers and Government.*

**1980-1985** **Council**, The Kent Trust for Nature Conservation

**1980-1985** **Member**, Kent County Council, Training Advisory Committee

**1980-1983** **Council**, The British Herpetological Society

**1979-present** **IUCN**

**2002-present** **Member**, National Parks Commission

**1979-1989** **Founder Chairman**, Tortoise Specialist Group (now Tortoise and Freshwater Turtle Specialist Group), Species Survival Commission, IUCN

**1981-present** **Member**, various Specialist Groups, IUCN

**1989-present** **European Member**, Species Survival Commission. IUCN

**1984-present** **UK Committee**

**1979-1986** **Scientific Advisor**, Operation Drake & Raleigh

**1979-1985** **Member**, Kent Farming and Wildlife Advisory Group

**1979-1983** **Kent Committee, Institute of Biology**

**1977** **Distinguished Guest, Society of Fellows**, University of Michigan, USA

**1977** **Distinguished Lecturer**, The Smithsonian Institution, USA

**1977** **Distinguished Lecturer**, Duke University, USA

#### Appointments:

**2012** **Member, Swedish Research Council (Vetenskapsr det), Linnaeus Midterm Evaluation.**  
*The Linnaeus grants are intended for research environments that have already achieved international excellence in their research fields, or environments that could attain a leading international position if provided with extra support. The most important criterion used in choosing the recipients of Linnaeus grants was the ability of the research environments to perform internationally competitive research. The Linnaeus grant is a complement to the basic resources of the universities and intended to influence the strategic prioritizations at the university.*

**2010** **Member, Swedish Research Council (Vetenskapsr det) and the Swedish Research Council for Environment, Agricultural Sciences and Spatial Planning (Formas), ScienceEvaluation Board.**  
*The research councils appointed two committees to evaluate their investment in biodiversity research from the perspectives of the quality and strategic direction of the science (Science Committee) and the relevance of the research (Relevance Committee). The Science Committee consisted of 10 international experts representing a wide range of science relevant to biodiversity.*

**2002-2011** **Advisor then Chairman**, Rural Regeneration Unit, UK  
*Part-time advising on the science and conservation work of the Rural Regeneration Unit; catalyse new ideas to enable the RRU to support economy, society and culture; endeavour to source and facilitate external funds; provide insights into future strategies; advise on technical capacity, and especially support the Food Co-operative programme developed by the RRU.*

**1999-2009** **Director, Sustainable Forestry Management, Bermuda, Delaware, London**  
*Sustainable Forestry Management was established in 1999 to demonstrate that attractive returns can be generated by investment in the world's tropical and subtropical forests. It is now widely accepted that emissions of carbon dioxide resulting from human activity are a major cause of global warming. It is also accepted that given population growth and demand for energy that the world will continue to rely on fossil fuels, the principal source of greenhouse gases, for the foreseeable future. Forests absorb and store ("sequester") carbon dioxide efficiently and provide the low-cost opportunity for carbon dioxide offsets for industrial enterprises. This now provides the opportunity to restore some of the damage which widespread deforestation has caused over the last several decades as well as helping to mitigate global warming. Industrial exploitation of tropical and subtropical rural areas has often increased poverty in the developing world and global forest resources are continuing to diminish at an alarming rate. The destruction of old growth forests, watershed loss and desertification have damaged or destroyed the habitat of many of the*

world's most endangered species and vulnerable people. SFM's business is to address these issues on an integrated, sustainable and ethical basis. SFM is building a global portfolio of forest-based enterprises with the help of commercial, financial, not-for-profit and multilateral partners including leading participants in forestry, bio-prospecting and eco-tourism. SFM's principal revenues will be derived from supplying and trading carbon dioxide emission credits and offsets in the carbon market and from the harvest of environmentally certified timber.

SFM's Board of Directors (Ian Swingland, Robin Hanbury-Tenison, Eric Bettelheim, Richard Sandor, Alan Bernstein, William Brodsky, Sven Ullring, Hugh van Cutsem, Guy Weston) and Advisory Board (Mr Oscar Arias Sanchez, Dr Ernst Brugger, Dr Jacob Frenkel, Mr Israel Klabin, Prof Norman Myers, Prof Sir Ghilleen Prance, Prof Peter Raven, Prof M.S. Swaminathan, Dr. Edward Ayensu) include world leaders in business, financial markets, conservation, emerging market investment, science and human rights. Its officers and directors have over 200 years of relevant business experience and global networks of relationships. Its advisors are at the top of their professions. SFM's business plan is the result of 4 years of research and development and \$9 million of investment. SFM intends to be both a first mover in the carbon marketplace and to set the world standard for investment in tropical and subtropical forest areas.

1999-2002

**Chief Policy Advisor**, Countryside Alliance, UK

*Part-time advising the principal organisation concerned with all aspects of the countryside especially research for publications in peer-reviewed journals.*

1998-2001

**External Examiner**, MSc in Biodiversity and Conservation, University of Leeds, UK

1997-2003

**Chairman**, The Apple and Pear Research Council, DEFRA, UK

*Part-time Chairman, responsible for the management, development and direction of all research concerning apple and pear growing and the industry. Absorbed into The Agriculture and Horticulture Development Board.*

1995-1998

**External Examiner**, MSc in Conservation Biology, Manchester Metropolitan University, UK.

1994-1999

**Professor of Conservation Biology**, University of Kent, UK

1989-1999

**Founder**, The Durrell Institute of Conservation & Ecology, University of Kent, UK

*Established the Institute as the world's first multidisciplinary research and postgraduate training institute in biodiversity conservation and management. Raised US\$10m from external funds to create the largest and best-known research (RAE 5) and biodiversity institute, now working over 50 countries, mainly in areas rich in biodiversity, but poor in resources in the tropics of Asia and Africa.*

1989-1998

**Founding Editor**, 'Biodiversity and Conservation'

*International peer-reviewed scientific journal published monthly and concerned with the natural and social sciences that are relevant to biodiversity conservation and sustainable utilisation.*

1979-1989

**Lecturer then Senior Lecturer in Natural Sciences**, School of Adult and Continuing Education, University of Kent, UK

1974-1976

**Visiting Scientist**, Royal Society Research Station, Aldabra Atoll, Republic of the Seychelles

1974-1978

**Post-doctoral Fellow**, University of Oxford, UK

1974-1979

**College Tutor**, St. Peter's Hall, St. Catherine's, Magdalen, Lady Margaret Hall, University of Oxford, UK

1973-1974

**Wildlife Management Biologist**, Kafue National Park, Republic of Zambia

1969-1973

**University Demonstrator**, University of Edinburgh, UK

1969

**Population Research Scientist**, Product Evaluation, Shell Research Ltd., UK

#### Projects:

2012

**International Workshop on Integrated Wetland Management**, Sand Lake Resort, Sand Lake Ecological Tourism Zone, Ningxia, People's Republic of China. Asian Development Bank.

2006

**GEF Leader**, ADB TA 4640-PRC Ningxia Yinchuan Integrated Ecosystem Management Project 2006, 4 months, Asian Development Bank.

*Identify priority sites for project interventions in accordance with the criteria agreed under the PRC/GEF Partnership; and identify suitable GEF investments. Advise on the Project's ability to integrate biodiversity considerations into the mainstream economy. Identify targets for improving the livelihoods of the beneficiaries based on sustainable use /harvesting and record progress at midterm and final evaluation. Assist the team leader/IEM specialist and domestic consultants to (a) formulate recommendations for institutional capacity building, consultative and participatory processes, and integrating sectoral agencies in formulating and implementing IEM; and (b) recommend an institutional approach for harmonizing the existing diverse programs to overcome any inconsistencies or overlaps. Introduce best-practice international standards for managing wildlife gardens and parks (with emphasis on reducing land degradation) and the Government's environmental restoration objectives, investment priorities, and current programs. Recommend measures for conservation and restoration of biodiversity and degraded land, and improvement of rural livelihoods, with emphasis on a market-oriented approach. Assess the wildlife resources of the natural ecosystems and identify key species and habitats that would attract tourists; and management requirements for conserving the habitats of the key species while developing the commercial potential of wildlife, including the feasibility of a modern zoo with conservation, education and tourism features. Design an effective approach to ensure lessons learned from implementing and demonstrating biodiversity conservation and sustainable natural resource use in the focal areas will be used to promote*

and implement conservation. Establish a mechanism for monitoring the effectiveness of the proposed replication strategy promoting incentive measures and instruments (e.g., hypothecation, trust funds, payments for environmental services, certification). Recommend how mainstreaming biodiversity through the implementation of this project with ongoing GEF development assistance, sector lending or other technical assistance programs can be harmonized. Review all project components to ensure they contribute to the conservation and restoration of biodiversity and degraded land, and the improvement of rural livelihoods. Assess infrastructure requirements for international standards in wildlife conservation, management and commercialization. Take responsibility for ensuring the major GEF reports are submitted on schedule and meet the quality requirements of the Government and GEF. Using international best practices, advise an effective tourism strategy to increase sustainable income in the project area. In particular (a) review the cultural venues and the potential for tourism; (b) assess the infrastructure needs to support tours, tourists, and the on-ground organization; (c) advise on training programs to improve both service standards with the local tourist industry and the on-ground staff including guides at the various venues..

**3-4/2005**

**Staff Consultant**, PRC-GEF Country Planning Framework - Land Degradation in Dryland Ecosystems, Sustainable Biodiversity Management, 2005, 1 month. RSC No. C51110-PRC, Technical Assistance for Preparing Ningxia Integrated Ecosystem Management Project and Shaanxi Qinling Ecosystem Protection Project. Asian Development Bank

Review all documentation and prepare issues paper covering biodiversity conservation and management, innovative approaches for the future and international best practices on sustainable biodiversity management. Review Government programs, policies, regulations and laws on nature reserves and advise on relevant issues to be covered in the PPTA. Review Government programs related to nature and biodiversity conservation such as Grain for Green program, National Ecological Construction Plan, and Ecological Functioning Conservation Areas, as relevant for specific paragraphs for the rationale, scope, issues, activities and terms of reference on biodiversity management in the PPTA paper. Prepare a proposal requesting GEF funding of a Project Preparation and Development Facility for the two projects. Review existing proposals from the Government on the objectives, scope, costs, phasing, outputs and sequencing of work and assist in formulating final proposals in aspects of biodiversity management. Attend meetings with relevant organisations and stakeholders, and assist in negotiating agreement for the PPTA. Assist in finalising TA paper, related MOUs and other documentation, including rationale, objectives, scope, implementation arrangements, and terms of reference for consultants, work plans, logical frameworks, major outputs, scheduling and sequencing of major items and events, costs, etc. Specifically draft; the final PPTA paper covering the Ningxia Integrated Ecosystem Management Project and Shaanxi Qinling Ecosystem Protection Project and appendices; GEF PDF-B grant applications; draft final MOUs; project documentation suitable for supporting TA implementation; liaise with donors.

**3-4/2002**

**Biodiversity Specialist**, PRC-GEF Country Planning Framework - Land Degradation in Dryland Ecosystems (TA3657-PRC), Asian Development Bank

Reviewed biodiversity information for Western People's Republic of China (identification of sites characterised by species richness, habitat diversity, importance in maintaining vital ecological processes, the conservation status of the ecosystem, uniqueness of ecosystem); status of biodiversity and identified particular strengths and weaknesses of these arrangements; status and adequacy of the Biodiversity Conservation Action Plan (BCAP); policy and institutional issues associated with biodiversity conservation, and made recommendations for improvements; estimated the potential value of ecosystem services associated with current and proposed protected areas, and the potential value of tourism and other non-destructive uses of biodiversity in Western PRC. Proposed possible investments in biodiversity conservation that would generate significant economic returns from direct utilization or from the associated ecosystem services, as well as contributing to poverty alleviation.

**2000-2002**

**Staff Consultant**, The Santay Project, Ecuador, Fundación Malecon

Oversaw all biological, ecological and environmental aspects of the Santay Project, Guayaquil, Ecuador which achieved (i) biodiversity conservation and improved forest management; (ii) improved institutional capacity to manage Santay Island itself; (iii) reduced the poverty level of the 2-3 million people living in the impact zone bordering the Island through expanding economic opportunities, improved social infrastructure, improved organization for resource-users, and facilitating stakeholder participation in resource management; and (iv) adopted a supportive set of policies, especially regarding charging economic prices for access to Santay Island resources.

**1999-2001**

**Staff Consultant**, Panel of Experts, Gorai River Restoration Project, World Bank

Oversaw all biological, ecological and environmental aspects of the Gorai River Restoration Project which aimed to redress the problems of decreasing flow causing siltation and damage to the integrity of the Sundarban Reserve Forest.

**1999-2000**

**Staff Consultant**, Asian Development Bank

A project concerning Protected Area Management and Wildlife Conservation of Sri Lanka that addressed the inadequate institutional framework, legislative framework, weak institutional capacity of the Wildlife Dept., overexploitation of protected areas, and missed income opportunities and lack of benefit sharing.

*We successfully developed and refined an institutional reform agenda indicating the steps the Government needed to take prior to Loan approval and those that needed to be taken as part of the Project; identify gaps in the current project design and prepared TOR for the activities that still needed to be undertaken; prepared a GEF block B grant proposal and GEF concept paper; obtained the Government's concurrence, including that of the Biodiversity Focal Point, on the actions proposed.*

- 1998**            **Presenter**, 'Mulu Revisited', Channel 4 Productions  
*Twenty years previously in 1978, Robin Hanbury-Tenison and I had spent time on the Royal Geographical Society Expedition to Gunong Mulu National Park, one of the best examples of tropical rainforests in the world. We revisited the area with a film crew to record our reactions, those of the local people, the changes in biodiversity and local people's living conditions over the last two decades, and what happened to us over a two-week period. The film was screened worldwide February 1999.*
- 1998-2001**       **Advisor**, Swaziland Biodiversity Information Management System  
*Swaziland has formally adhered to the Convention on Biological Diversity and other international protocols concerning biodiversity conservation and sustainable utilisation. Moreover DICE was already assisting the country in formulating the national plans and policy through a UNDP/GOS programme. This facility and link scheme was welcomed by the principals in SEA, SBSAP, and UNISWA (including the DFID Env Advisor to GOS) and all relevant GOS Ministries and Departments as a step towards a powerful planning tool and human capacity building for national development which is totally compatible with the GOS standard for land use planning MicroStation. UNISWA handled the data systems and SEA had the tool available for reference updated monthly by UNISWA-based National Biodiversity Data Unit that was created through this Scheme. LINK programme funded by British Council*
- 1998**            **Advisor**, The Environs Project, Wates Group, UK  
*The overriding goal of this project was to raise the external profile of the Group in the environment, and to draft a sound environmental plan and policy for the Group. The project reviewed what resources and capacity Wates Group had in-house with the potential to expand and develop its environmental work, and how to turn these resources into effective initiatives which had a net commercial gain and corporate benefit.*
- 1997-1998**       **International Consultant**, Swaziland National Biodiversity Strategy and Action Plan, UNDP and SEA  
*To build on and reinforce existing national strategies and plans, such as the National Environment Plan, to allow the Kingdom to meet its obligations under the Convention on Biological Diversity and the Conference of Parties.*
- 11-12/1997**       **Staff Consultant and Conservation Ecologist**, Biodiversity Conservation of the Sundarban Forest, Bangladesh, Asian Development Bank (ADB/97-363 Loan Fact-finding Mission).  
*Followed the mission the previous year (see below), and the international staff consultant/conservation ecologist was asked to assist the mission in reviewing the Final Report (FR) of PPTA 2724-BAN by the consultants. Reviewed the draft proposal sent by the Bank to the GEF, redrafted the proposal in a form suitable for GEF/World Bank, for which we subsequently won US\$12m.*
- 11/1997**           **Principal Author and Investigator** 'The Evolutionary Ecology of Giant Tortoises'.  
*Field visit as President, British Chelonia Group, to collect further data from the Charles Darwin Research Station.*
- 1997-2000**       **Principal Investigator** China (with John MacKinnon), Biodiversity Conservation in Canadian Govt., China Council for International Cooperation on Environment and Development  
*Development of biodiversity conservation and community-participatory programmes.*
- 1994-1997**       **Principal Investigator**, Tourism, Conservation and Sustainable Development Project  
*Examined tourism, environmental impact and sustainable management system in three sites with national collaborators in Indonesia, Zimbabwe, and India. DFID-funded project in DICE.*
- 1994-1997**       **Principal Investigator**, Biodiversity Conservation Information and Databases  
*Carried out needs review and established IT database support for developing countries (Zimbabwe, Indonesia, Peru), established DICE training programmes and Masters' course in Biodiversity Information, trained postgraduates from the target countries, conducted training workshops in situ. Darwin Initiative-funded project in DICE.*
- 1997-2001**       **Visiting Professor of Conservation Biology & Auckland Foundation Fellow**  
*Established British Council LINK programme to develop new techniques to improve cost effectiveness and success in biodiversity conservation programmes worldwide, with especial relevance to Far East/Southeast Asia. Supported by Auckland University and British Council New Zealand.*
- 1997-2000**       **Visiting Professor of Conservation**, Dipartimento di Biologia Animale e Genetica, Florence University

*Lectured and developed a European MSc concept in Biodiversity Management. Supported by Florence University and Italian Government.*

- 1996-1997**     **Project Leader**, Peruvian Biodiversity Conservation and the Environment Project,  
*Advised and implemented collaborative research, training and commercial programmes between DICE and Peruvian Government, Agencies and Industry in business in the environment, sustainable tourism, biodiversity conservation, protected area management, and the establishment of an EcoFund for equity investment in companies with good environmental potential or performance. Programme ongoing. Workshops, development projects, postgraduate scholarships, professional in-service training facilities, and the EcoFund (USD 20m) established. Supported by British and Peruvian Government, and DICE.*
- 10/1996**     **Curriculum Adviser**, Southern Africa Wildlife College  
*Created and devised curriculum for Southern Africa Wildlife College to train Protected Area Managers. Assessed needs. Monitored programme. Invited by World Wildlife Fund and British Council South Africa.*
- 6-7/1996**     **Staff Consultant**, Biodiversity Conservation in the Sundarbans, Bangladesh  
Asian Development Bank (PPTA BANG/96-188).  
*Consultant on mission to set the TORs for a feasibility project to manage the Sundarbans Reserved Forest for the benefit of the local people, national development and to improve the integrity of the ecosystem.*
- 1996-present**     **Policy Adviser**, ODA, World Bank and GEF on biodiversity conservation.  
*Commercialisation, sustainable integration, infrastructure, organisation, methodologies, analysis, institutional reinforcement, and training.*
- 5/1994**     **Scientific Adviser**, Kasanka National Park, Kasanka Trust for Government of the Republic of Zambia  
*Management of the Kasanka National Park. Advised and planned management of this NP as one of the first privatised Parks in Africa. Assisted and trained local people. Provided training at DICE for the Paramount Chief of the area.*
- 1993-1995**     **Biodiversity Consultant**, Biodiversity Conservation and Commercialisation of Protected Areas in Indonesia, Asian Development Bank (TA 1782-INO).  
*The core of this large TA was the commercialisation of biodiversity assets. The project concentrated on the institutional, policy, management, organisational, legal, socio-economic, manpower, training, GIS/IT techniques of using the biodiversity in protected areas for sustainable local development. Recommendations generated included: Commercialisation options for minor extractive products, research and information generating activities, and ecotourism. Performance indicators and case studies of amongst others, biochemical prospecting in the region, community biodiversity projects, and GATT 94 and its impact on Indonesian biodiversity. Management systems and developments.*
- 4/1993**     **Workshop Director**  
*Directed DICE Workshop on "Sustainable management and conservation" in Dumoga Bone, Sulawesi. Assisted in establishment of The Wallacea Development Institute, Jakarta. Drafted bid for British Council to ADB for TA 1782-INO. Supported by British Council, DICE, Wallacea Institute.*
- 11/1993**     **Institutional Adviser**  
*Advised on establishment of The International Institute for Environmental Management - NITLA in Mexico City to train undergraduate students from the region in a four-year programme. Supported by IIEE.*
- 7/1990**     **Research Scientist**  
*Surveyed and assessed Aldabra Atoll for future conservation potential. Assessed status of giant tortoise population. Supported by Smithsonian Institution.*
- 1989**     **International Scientific Authority**, Queensland Kangaroo Management Programme  
*Principal consultant on the Queensland Kangaroo Management Programme. Provided Proof of Evidence as to whether the proposed management plan for the State of Queensland, based on a mathematical model using sex ratios, culling returns, and population predictions as indicators would sustainably manage five species of kangaroos that were felt to be in competition with grazing domestic stock. Proof of Evidence precipitated a withdrawal of the proposed model before the Judicial Tribunal and a new management plan was instituted. Supported by Greenpeace and the Commonwealth of Australia*
- 1988**     **Consultant**, WWF/IUCN  
*Consultant, Management Plan for Galapagos National Park*
- 1980-1983**     **Principal Investigator**  
*Ecology, behaviour and conservation of Hermann's tortoise in Provence, France. Grant from Natural Environment Research Council, UK.*

- 1981-1989**      **Director 'Operation Tortoise'**  
*Worldwide survey of all species of tortoises and their status. Collected information on ecology and threats. Grant from New York Zoological Society.*
- 1979**            **Consultant**, Government of the Republic of the Seychelles, Royal Society, and the Seychelles Island Foundation.  
*Advised on the management plan for Aldabra Atoll, Seychelles.*
- 1978**            **Member**, Royal Geographical Society Gunong Mulu Expedition  
 Research Scientist, *Research on resource division in sympatric species of flying dragons Draco spp. and assisted in the preparation of the management plan for Gunong Mulu National Park, Sarawak. Supported by National Geographic Society.*
- 1977-1982**      **Wildlife Park Adviser, Cardigan Wildlife Park, Ecoconsult, Ecoprojects**  
*Director & Consultant. Projects included establishing the forerunner to the current Welsh Wildlife Centre in Cardigan, and pre-investment plans for the Costa Rica Wildlife Park and Endangered Species Reserve, freshwater crayfish farming.*
- 1974-1976**      **Visiting Scientist**, Royal Society Research Station, Aldabra Atoll, Republic of the Seychelles  
*Research work on the population regulation and ecology of giant tortoise. Discovered environmental sex determination and an evolutionary stable behavioural polymorphism concerning seasonal migration of part of the population.*
- 1974-1979**      **Post-doctoral Research Assistant**, University of Oxford, UK  
*Tutored undergraduates analysed and published research work.*
- 1973-1974**      **Wildlife Biologist**, Kafue National Park, Zambia  
*Collaborated in devising a plan for the management of the Kafue N.P. Implemented research and investigative programmes to assess wildlife numbers and appropriate management needs, to assess tourist impact, build infrastructure, provide roads for monitoring habitat and population numbers, distribution and densities, monitored long-term plots, curated data and museum collection, liaised with local people, local Government and central Government. Funded by ODA (DFID) and Government of the Republic of Zambia.*
- 1969-1973**      **University Demonstrator**, Forestry & Natural Resources, University of Edinburgh UK  
*Demonstrating all aspects of wildlife management and protected area management in multispecies, inhabited areas.*
- 1969**            **Population Research Scientist**, Product Evaluation Division, Shell Research Ltd..  
*Responsible for evaluating ecological and environmental data on drug n-trityl-morpholine 'Frescon™' which eradicated Bulinid and Limnaeid spp. of snails, secondary hosts to liver fluke and bilharzia.*

**Professional Fellowships:**

- 1974-present**    Zoological Society of London  
**1992-1997**        Royal Society of Arts  
**1992-2015**        Royal Geographical Society  
**1993-1997**        Institute of Biology

**Publications:**

**Edited books:**

- Swingland, IR and Greenwood, PJ 1983. *The Ecology of Animal Movement*. Oxford: Oxford University Press. (First and second paperback editions published in 1984 and 1985).
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