

# CURRICULUM VITAE

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Born: Bolton, Lancashire, 24th January 1948.

Nationality: British

Educated at Cowbridge Grammar School, Glamorgan, Wales and St Catherine's College, Oxford.

## **Qualifications:**

BA (Oxon) in Natural Sciences, (Zoology) class: 2.1, 1970. Diploma in Social Anthropology, Oxford, 1978.

I am a Certified Biologist and former Member of the Institute of Biology, the International Union of Radioecologists, The International Society for Radiological Protection, the British Nuclear Energy Society and the British Ecological Society. I am currently a council member of the British Association of Nature Conservationists.

## **Languages:**

I speak German (intermediate) and French (basic).

## **Experience:**

### ***Organisation and Leadership***

I left the academic world in 1980 whilst conducting research for a doctorate in social anthropology under the linguistic anthropologist, Edwin Ardener, in order to set up an effective policy unit on environmental risk (Political Ecology Research Group). I brought together and led a team with expertise in engineering, computing, planning, sociology and ecology and we worked on the interface between science, law and policy. My expertise thus lies with in-depth science and policy analysis, team work and engagement in the policy process. I ran this consultancy for twelve years and then set up a network of international experts on environmental risk and pollution in order to pursue policy work at the supra-national level of the EU and UN as well as international NGOs. After another ten years, I set up a communications consultancy specialising in computer graphics, visualisation of sustainable futures and landscape planning.

My method of working has been somewhat different from normal consultancies – rather than tender for contracts on projects that have already been determined, I have set up research

units that analyse a field and determine the best agenda with respect to environmental sustainability, social justice and cultural integrity, and then seek funding partners to support that agenda. Occasionally, I have been commissioned for specific projects – in particular from government agencies, who recognise the benefits of this more critical approach to risk and sustainability.

In the three phases of work over nearly four decades I have been concerned to empower and mentor young scientists and activists to engage in the policy sphere. Several of my colleagues have gone on to set up their own operations or lead teams elsewhere (Dr. Gordon Thompson set up the Institute for Resource and Security Studies in Cambridge, Massachusetts; Dr. Tim Jackson went on to develop Clean Production Strategies at the Stockholm Environment Institute and became Professor of Sustainable Development at Surrey University; Charlie Arden-Clarke went on to head-up the agriculture and international trade unit of WWF in Geneva; Dr. Kate Davies went on to head Toronto's Environment Protection Unit).

My oversight has encompassed a broad range of scientific fields, for example: ecology and biodiversity; climate science and adaptation strategies; organic agriculture and sustainability; renewable energy strategies, impacts and planning; oceanography, modelling and pollution control; nuclear and industrial risk assessment; radioactive discharges and environmental toxicology; and international whaling policy.

In these policy fields I have engaged at all levels – from small scale 'citizen initiatives' and local government, to regional councils, national government departments, special inquiries and commissions, science advisory groups (governmental and inter-governmental) and in the drafting of international legislation (UN Conventions).

### ***Science Analysis***

I have undertaken several in-depth analyses (over several years) of the science underlying policy directions. These programmes have involved reviews of peer-reviewed journals and visits to laboratories and discussions with leading researchers in the following fields:

**Climate Change:** After an initial contact with the literature in 1996 whilst conducting a policy review for a UK government agency and following the debates whilst working on renewable energy strategies (also for a UK government initiative) – and considering the importance of the issue and impact of the proposed remedies, I undertook my own in-depth review of the science literature over a period of three years (2005-2008). I concluded that the effects of carbon dioxide were over-stated in relation to natural variability and that the atmospheric physics were far from 'settled science'. In 2008 I circulated my finding to environmental groups and in 2009 my book *Chill: a reassessment of global warming theory* was published by Clairview. In 2010 I continued my analysis of the science, visiting key US research laboratories and beginning a collaboration with my former colleague Professor Jackson Davis at the Environmental Studies Institute in Boulder, Colorado. It is our intention to publish in the scientific literature and we are currently engaged on a reassessment of ice-core data.

**Biodiversity Strategies:** I have been engaged on extensive review of the UK biodiversity strategy, agricultural policy, forestry, water, recreation and conservation

management issues since 1995. This work involves review of conservation science and practice, but also I have instigated pioneering networks of practitioners and formulated an advanced approach known as *rewilding*. As the Wildland Network, with a group of five co-workers, we organised a series of national conferences and regional seminars between 2005 and 2008, culminating in the founding of the Wildland Research Institute under Dr Steve Carver at Leeds University. My book *Beyond Conservation* was commissioned by the British Association of Nature Conservationists and published in 2005 by Earthscan. It has become a key text in conservation management courses. I am currently engaged in writing a history of this work and an edited volume of articles from *ECOS*, the Journal of BANC. I have worked closely with similar-minded conservationists in organisations such as the National Trust (writing their policy document *A Call for the Wild*) and the Forestry Commission ( I sit on a management advisory group for a large-scale project in the Lake District). This work requires a broad knowledge of ecology and individual species, conservation science and policy frameworks.

**Renewable Energy Strategies:** I have been engaged in strategy work and policy analysis in this field since 1980 when, with Dr Iain Sanderson at Leeds University (an expert of transport policy), we conducted the first assessment of ‘alternative energy’ strategies within the European Union. I advised the UK government agency The Countryside Commission and wrote several inputs to government energy policy consultation papers. This work required a broad technical knowledge of conventional and renewable energy sources and their impacts, as well as national energy supply and demand, and public policy implications.

**Carbon Sequestration:** My group was among the first scientists to engage in reviews of carbon cycle science and practical issues of sequestration as a form of climate change mitigation. This work required a knowledge of the carbon cycle and ecosystem responses as well as an appreciation of international energy policy and emissions.

**Ecological Agriculture:** My Oxford group also led on the comparative scientific analysis of organic (ecological) and conventional agricultural systems with regard to environmental impacts. I developed the research programme that Charlie Arden-Clarke then led.

**Ocean pollution:** In the course of my policy work for the UN and international NGOs I reviewed the use of computer-based General Circulation Models for the dispersal control of toxic substances as well as the international legislation of control. This work required an in-depth knowledge of oceanography, sediment transport and toxicology across a range of substances from heavy metals, organic chemicals and radionuclides.

**Nuclear risk assessment:** My group (PERG) was the first independent group of scientists to analyse nuclear accident risks. I developed a knowledge of basic design of power plant and waste storage facilities and their hazard assessment. I also developed the in-house capability of computer-based atmospheric and coastal water dispersal studies; and later, the critical review of ocean dispersal programmes for radioactive waste disposal at sea. This work involved a knowledge of radiation biology and risk, radioecology and oceanic/atmospheric processes. Much of this work was published in the science literature (from *Nature* to *Marine*

*Pollution Bulletin.* I was also engaged on issues related to the biological risk of low level radiation and this required a basic understanding of epidemiology.

***International Policy, Networks and Contacts:***

In the several fields outlined above, I have developed a network of international contacts and co-workers in science and policy. My main focus has been upon effective engagement in both analysing the science behind policy and also changing policy where required. I also have extensive contacts in the media and in the academic world, with NGOs and in some government agencies. In those fields where I formerly focused my work, most contacts are rather dated, but some remain (in nuclear risks and ocean pollution) – my most extensive contacts at present are in the climate science, renewable energy and biodiversity communities. I am able to call upon an extensive range of expertise and skilled consultancies in these fields.

***Future Directions:***

My direction of interest moves with the currents of change and wherever the leading edge of environmental work is located – that current presently involved the issues of *resilience* to climate change (whether natural or man-made), adaptation policies and international humanitarian aid. I spent three months in 2010 reviewing the structure of international aid and its effectiveness at the grass-roots community and ecological level. I am now engaged on identifying priorities and policies to aid the most vulnerable communities in terms of ecological resilience. I have a long standing interest in indigenous knowledge relating to health, medicine and the environment.

***Field Experience:***

I have experience as a field biologist and expedition leader; explorer (remote regions of tropical Africa and the Sahara); and mountaineer. I have a long-standing interest in yoga and holistic health and teach meditation and movement. Following my studies at Oxford's Institute of Social Anthropology, I have extensive experience of shamanic practices in North American, Eastern European and Himalayan contexts and have taught courses on different cultural perceptions of the environment, causation, divinity and health.

***Teaching Experience:***

In science, I have teaching experience at various tertiary levels (Biology and Geology at Birkenhead College (1971-72); Environmental Studies at Wrexham College of Education (teacher training) (1974) and at several Universities – including Oxford, Cambridge and London (1980 - ) involving individual lectures, courses, and seminar series. I have had a small involvement in the supervision of MSc and PhD theses and in course development – mostly in the fields of energy policy or biodiversity strategies.

***Advisory work:***

My work in science has largely been as a policy analyst, consultant and advisor at all levels of local, regional and national government, the EU and the UN. I have sat on advisory and research committees at government, EU and UN level – related to pollution control or energy

policy. I am currently involved in advisory work in the forestry and conservation sector in the UK.

***Other skills:***

I am an exhibited and published wildlife artist. I have also worked regularly (since 1985) as a bodywork and movement therapist, yoga instructor and meditation teacher – at times running group retreats for up to 35 people.

**Appointments:**

I have been an independent consultant since 1978, having founded a specialist research group (Political Ecology Research Group, 1978), an international consultancy (Terramarès in 1992), and a communications group focusing on sustainability (Ethos, 2001).

I had a brief spell of working within the corporate sector (IBM Germany) in computer systems engineering – mainly as a translator for field-manuals.

I set up the Oxford based **Political Ecology Research Group** and was a director from 1978 to 1991. The group provided critical scientific review of a wide range of environmental policy issues. In 1991, I continued scientific consultancy work through a network of cooperating specialists that I set up as **Terramarès** consultancy (Group of International Experts in Marine and Terrestrial Ecosystems).

These operations were therefore *created* rather than *appointed* and my task was then to pull together effective teams and networks, design research programmes and seek partner agencies with NGOs, foundations, governments or international organisations.

This earlier work involved environmental protection issues of pollution and hazard analysis, particularly relating to the dispersal of radioactivity and toxic chemicals in the environment. My peer-reviewed paper critiquing the UN scientific advisory structure on pollution prevention received over 100 requests for reprints from laboratories worldwide. Earlier work in the 1970s and 1980s identified the hazards of low level radioactive discharges and first highlighted the excess of childhood cancers in the neighbourhood of nuclear installations such as Sellafield and Dounreay. PERG scientists were the first analysts to describe the full impact in Britain of potential nuclear reactor accidents and to identify the hazards of storing liquid high active nuclear waste. PERG was instrumental in changing nuclear policy in Britain (reduction of radioactive discharges, review of emergency planning, abandonment of dumping at sea); in Germany (review of reprocessing, mothballing of the Fast Reactor) and Scandinavia (nuclear waste policy). PERG was among the first to advocate carbon sequestration in climate mitigation.

Terramarès scientists played a key role in the development and acceptance of the Precautionary Principle in international conventions.

In 2001, I decided that the methods of communicating science or strategy programmes were as important as the research itself and I set up a small internet-based communications group – *Ethos*.

## **ETHOS**

**2001-**

Ethos-uk.com was set up to merge the skills of Richard Fraser, 3D designer at Visionscape, a Glastonbury-based company, with my environmental knowledge and science networks. Matthew Taylor brought additional web-design capabilities to the team, which now includes graphic designers and has ready access to specialists in conservation science and sustainable development. The group pioneered multi-media methods of communication on issues of sustainability and the emergence of an integrated cultural and ecological framework of inquiry. It can call upon a wide range of specialist expertise in forestry, sustainable systems, renewable energy and graphic design. The group has worked closely with the Countryside Agency, the UK Department of Trade and Industry and the British Association of Nature Conservationists as well as a foundation for humanitarian aid – *Lifeworks*. It has its own publishing wing and is committed to making the results of ecological science more freely available via the internet.

It has thus far specialised in landscape, forestry and biodiversity impacts of renewable energy strategies; habitat networks and rewilding and species re-introduction programmes. Its future interests are focussed upon issues of resilience to climate change – especially with regard to the most vulnerable communities worldwide and also with regard to biodiversity.

## **TERRAMARES Consultants**

**1991-2001**

The international group of consultants on terrestrial and marine environments functioned as a network of specialists in the critical review of global ecological issues. I have been involved in the following initiatives and consultancies:

### **Planning for Climate Change**

My interest in integrated approaches to planning for climate change led to the **Countryside Commission** commissioning a review of climate impacts science and its relevance to countryside policies and programmes (1996). My report was followed by working seminars within the Commission and the development of concepts for 'no regrets' strategies and robustness of natural and man-made ecosystems. This work led to consultancies relating to the Commission's input to UK government consultations on climate change (DETR, 1999) and review of OECD consultation documents (1996). Issues of climate change and the integration of other factors such as demographic shifts, population growth, housing and countryside conservation were also important in a recent review of the **Countryside Agency's** programmes in relation to government water policy.

In 2000, I carried out a pilot study with the Agency to assess the potential of *virtual reality* software as a visualizing tool for the impact of renewable energy in the English landscape. This work has been widely used in the work of the Agency, particular with regard to policy on wind turbines. I was appointed to the **National Advisory Committee on Community Renewable Initiatives**, a joint initiative of the Countryside Agency and the DTI.

In 2003, I presented material relating to adaptation to climate change to inter-agency seminars involving the Environment Agency, Scottish Natural Heritage, English Nature and the Countryside Council for Wales – arguing for integrated strategies of land use wherein carbon sequestration, organic agriculture, reforestation and re-introduction of wildlife can bring both ecological and economic benefits.

In 2005 I began a review of climate science with the object of assessing time constraints on integrating sustainable biodiversity and rural community objectives with renewable energy strategies. In 2008 an Ethos Climate Science Report was available for download on the Ethos site. The Report demonstrated a considerable lack of consensus on key elements of climate science – in particular the percentage natural component driving change, which I estimated could be as high as 80%, with considerable policy implications. In the absence of serious discussion within the conservation community, the report formed the basis of a book – *Chill: a reassessment of global warming theory* published in July, 2009.

The book was endorsed by my former colleague in UN anti-pollution work, Prof. W. Jackson Davis, who was a drafting author of the Kyoto Protocol and delegate to the UN Framework Climate Convention on behalf of the government of Nauru. In 2010, Professor Davis and I began collaboration on climate science analysis and I became a board member of the Environmental Studies Institute in Boulder, Colorado. ESI has a long history of distinguished environmental science and active policy work.

## **The protection, enhancement and ecological restoration of wild land areas in Britain**

In 1992, after leaving Oxford and full-time consultancy work, I founded a community reforestation initiative in **Snowdonia National Park** known as **Coed Eryri**, which aimed to restore the ecology of degraded grazing country and integrate social, cultural and economic objectives. In 2006 this work led to an invitation to present a strategy for ecological networks in Wales to a gathering of specialists, wildlife groups and government agencies sponsored by the Grazing Animals Project in Wales. And in 2010, the founding of the Welsh Wildland Foundation, of which I am a trustee. The Foundation recently received grant aid to investigate the re-introduction of beaver and development of tree nursery sites in the North Cambrians.

I have worked closely with the **National Trust**. In 1995, I led a seminar on wilderness issues at the Trust's Centennial Conference in Manchester, and in 1996 co-ordinated a **British Association of Nature Conservationists'** Conference on Wilderness at the Open University. In 1998, I was guest speaker at the Council for National Parks' conference on Design for Wilderness. In 1999, I acted as scientific consultant to the National Trust's project on enhanced protection of wilderness and delivered an invited paper on the concepts of nature

conservation to the joint BANC/National Trust conference at Lancaster University. I was principle author of the National Trust's recent policy document 'A *Call for the Wild*'. Earthscan published my book commissioned by BANC on 'wildland' strategies for British nature conservation, (*Beyond Conservation: a wildland strategy*).

I have worked closely with the Sustainability Branch of the Countryside Commission/Agency, and the National Trust on these issues. In 1996 I gave a seminar, Managing Environmental Change, to the Diploma Course in Countryside Management at the University of London; and in 1994 lectured on sustainable development principles to the Diploma students at the Cheltenham College of Landscape Architecture. In 2006 I gave a presentation on future landscapes and climate change to an EU seminar at Exeter University. I have given the Ethos Wildlands multi-media presentation to Hadlow Agricultural College's conservation students and to a gathering of the Welsh section of the Grazing Animals Project.

In 2005, I co-founded the Wildland Network (launched at Leeds University), creating a small co-ordinating group that organised a series of regional seminars from 2005-2008, on large-scale conservation and rewilding projects, culminating in the creation of the Wildland Research Institute at Leeds University – which holds a database on wildland projects in the UK.

In 2010, I was elected Council Member of the British Association of Nature Conservationists.

## **Carbon sequestration and climate mitigation strategies**

Terramarès scientists accumulated expertise in the assessment of afforestation strategies and mitigation of climate impacts. I led a review with Roger Kayes and Charlie Arden-Clarke for the **CEGB** (Central Electricity Generating Board) in 1990, and Roger Kayes completed reviews for **Greenpeace International** in 1994. Professor Jackson Davis, UCA Santa Cruz, was active in the IPCC and FCCC for the South Pacific Forum, and Professor Tim Jackson was also involved in government Policy Unit reviews of energy policy, and various aspects of carbon taxes and legal frameworks of the UN Framework Climate Convention.

In 2004, I advised the Countryside Agency and the Community Renewables initiative on carbon offset programmes – which were later taken up in some measure by the DTI.

## **Nuclear Waste Disposal and Environmental Hazards**

Although not now an area of research interest, I am occasionally asked to participate in policy developments on this issue. In July 1999, I completed a risk assessment relating to the Irish Sea for a Dublin-based legal challenge on Sellafield operations. In 1994 and 1996 Terramarès scientists completed a risk assessment of high-active waste stored at Sellafield for a consortium of concerned local authorities in the UK and Ireland.

# **Founder and Director of the Political Ecology Research Group, Oxford 1978-1991**

## Director of PERG Research Programmes

I founded and developed PERG into a multi-disciplinary team involving engineers, planners, ecologists and economists. The Group specialised in critical analysis of the supporting science relating to major policy issues such as nuclear waste disposal, spent fuel reprocessing, reactor safety, renewable energy strategies and energy policy; in addition to sustainable yield models for whaling, sustainable agriculture, climate mitigation and the role of afforestation.

The Group had a policy of maintaining copyright on all contract work and thus the right to publish its material, which it did in a series of Research Reports deposited with the copyright libraries in England, Ireland, Scotland and Wales. All members of the research group had the right to become directors of the not-for-profit company, irrespective of role or expertise.

Several of the PERG reports commanded widespread attention: the analysis of alternative energy strategies (with Iain Sanderson of Leeds University) with particular reference to environmental issues for the **European Parliament**, was translated into 5 languages; the feasibility of large scale afforestation for offsetting carbon dioxide emissions (**CEGB/National Power**; with Roger Kayes & Charlie Arden-Clarke); the environmental effects of conventional and organic farming systems (for **WWF** and other trusts, a report by Charlie Arden-Clarke); the environmental impact of Uranium mining in Donegal Ireland, for **Donegal County Council**;

It was a feature of virtually all of PERG's work that the Oxford team sought sponsors for the work it felt needed to be done and did not tender for contracts in the normal way of consultancies. The Group was thus able to operate independently and at the leading edge of environmental policy.

## **Development of Pollution Prevention Strategies in International Conventions**

A major part of my earlier work on marine pollution was sponsored by **Greenpeace International** and has involved participation in several inter-governmental initiatives related to treaties for the protection of the oceans from pollution. I represented GPI as chief advocate at the UN's London Convention meetings as well as the Paris and Oslo regional conventions.

I was a member of the Scientific Group of the London Convention, and of the Ad Hoc Working Group on the Revision of the Annexes to the Convention. In 1989, I was asked by

the secretariat of the Convention at the **International Maritime Organisation** to research new procedures and initiatives for waste prevention operated by Contracting Parties.

In May of 1991, I was an invited expert at a UNEP-sponsored group of specialists on Land Based Sources of Pollution, held in Halifax, Nova Scotia, and which generated recommendations for the UN Conference on Environment and Development in Brazil, 1992.

I prepared papers to two international scientific symposia on pollution prevention strategies: the First International Ocean Pollution Symposium in Puerto Rico (delivered by my colleague Tim Jackson) and a Symposium on Hazardous Waste Management, Stockholm. I also took part in invited seminars with Prof. Brian Wynne at the **Stockholm Environment Institute** and in association with Tim Jackson, helped develop 'Strategies for Clean Production'.

### **Clean Production and Pollution Prevention Strategies**

In co-operation with Lancaster University and the Stockholm Environment Institute.

I worked closely with the **Centre for Science Studies and Science Policy at the University of Lancaster**, having given seminars to the graduate students and aided in the supervision for MSc and PhD studies in a joint SERC studentship programme between the University and PERG. In 1991, I participated in a pivotal international seminar on clean production held in Stockholm, which led to the SEI work on Clean Production Strategies edited by Tim Jackson, who began this work with PERG and is now Professor of Sustainable Development at Surrey University's Centre for Environmental Strategy.

### **Re-forestation and the global carbon cycle**

In 1989, I proposed to the then **Central Electricity Generating Board**, later National Power, that they fund an assessment of the role of new forest planting in offsetting carbon dioxide emissions. The 6 month project undertook both scientific, technical and economic appraisals of the scope for action in the UK. Following this interest, I worked with representatives of the USA-based **Global Releaf** organisation, (an initiative of the American Forestry Association), in the UK and elsewhere to generate interest in industry toward planting schemes for ameliorating carbon dioxide build-up in the atmosphere. This idea was later taken up by the Carbon Trust and Future Forests.

### **A Critical Review of Alternative Energy Strategies in the EEC**

This report was commissioned in 1982 by the **Group of Independents in the European Parliament**. It critically reviewed all of the low-energy and alternative-energy strategies then current in the EEC countries, providing a summary of their technical basis, political, social and economic feasibility, and a critical review of their impacts upon the environment. The 4-volume report, known as the 'Taylor-Sanderson' report, after its co-authors, was translated into all the languages of the EEC and seminars were given to the Parliament and the Commission.

## **Nuclear Waste Disposal & the Marine Environment**

In the late 1970's and early 1980's I specialised in the radioecology of marine disposal of nuclear wastes, carrying out scientific reviews and giving advice to among others: Town & Country Planning Association (Windscale & Sizewell Inquiries); Greenpeace International and national offices in the UK, West Germany and the USA.; the prefecture of Aomori, Japan; various town and county councils (Powys, Gwent, Gwynedd, Suffolk), & COSLA (Council of Scottish Local Authorities).; The Nuclear Energy Board, Spain; Institute of Public Administration, Ireland; UK Department of the Environment. In 1984, I was appointed to the government's independent inquiry into disposal of nuclear waste in the North East Atlantic, known as the **Holliday Commission**, and in 1985 to the **DOE's Research Advisory Group**. This work led to a major change in UK policy on nuclear waste disposal.

I have served on the editorial board of the **Journal of Environmental Radioactivity** and lectured on courses for the **National Radiological Protection Board** and the **City University**. I published papers in the scientific literature as well as several research reports published by PERG, and a book jointly with the Town & Country Planning Association on the Windscale Inquiry. On nuclear and energy policy issues, I have been an advisor to a wide variety of organisations and the media: e.g. Council of Scottish Local Authorities, National Union of Public Employees, Fire Brigades Union, Scottish Fishermens Federation, BBC Horizon, Granada, ITN, Yorkshire TV, Harlech TV.

I have lectured and given seminars to University departments throughout Britain and overseas: Oxford University (Engineering); Oxford University (External Studies); Cambridge University (Cavendish Laboratory); Open University (Energy Unit); School of Landscape Architecture, Cheltenham; Lancaster University (Centre for Science & Science Policy); Bradford (Peace Studies); Edinburgh (Centre for Human Ecology); Birmingham (Radiology); Swansea (Environmental Health); Keele (International Relations) & the Universities of Madrid, Reykjavik, Bremen, and Nagasaki.

# LIST OF PUBLICATIONS

## Scientific papers:

- 1993 The State of the Marine Environment 'A critique of the work and the role of the Joint Group of Experts on Scientific Aspects of Marine Pollution (GESAMP).  
*Marine Pollution Bulletin* 26, 3: 120-127.
- 1993 The Precautionary Principle and the Prevention of Marine Pollution. (with T.Jackson).  
*Chemistry & Ecology*, 7: (1-4), pp123-134.
- 1991 Radioactive discharges in the Irish Sea: a lesson in the principle of precautionary action.  
*Proc.Symp. 'Cardigan Bay in Crisis'*, Snowdonia National Park Authority.
- 1988 Land-use implications of radioactive contamination. *Land Use Policy*, Vol.5 No1 pp62-70.
- 1988 Environmental Issues in Nuclear Risk Assessment.  
*Nuclear Technology International*, 1988, pp219-223.
- 1988 Large Consequence Low Probability Accidents  
*Standing Conference on Health & Safety in the Nuclear Age*,  
CEC, Radiation Protection, Report EUR 11608 EN
- 1987 The Interpretation of Monitoring Results  
in *Radiation & Health*, ed. Southwood & Russell-Jones, Wiley. pp19-45.
- 1985 Radionuclides in Cumbria: the international context.  
in *Pollution In Cumbria*. Institute of Terrestrial Ecology, Merlewood. HMSO.
- 1984 Environmental risk analysis in Great Britain (in Italian).  
*Annuario Europeo Dell'Ambiente*, DOCTER, Milan.pp534-538.

## Ethos

- (2010) *Questions of Resilience: development aid in a changing climate*. report for the Lifework's Foundation on the structure and direction of UK and International Development Aid. Ethos.
- (2007) *The Economic Benefits of Wildland*. Report for the Wildland Network. Ethos.
- (2005) *Cores and Connectivity: a manifesto for wildland* Report to 1<sup>st</sup> Meeting of the Wildland Network, Leeds University. Ethos.
- (2003) *Rewilding Britain: Large scale ecological restoration initiatives in the British landscape and the potential re-introduction of large carnivores*.  
Poster presentation (with Simon Ayres) to the Large Carnivore Initiative for Europe Conference , Brasov. Romania, June 2003. Ethos
- (2001) *Visualising Renewable Energy in the Landscape of 2050*.  
Multi-media Project for the Countryside Agency, Cheltenham. Ethos.

## Terramarès

- (1999) *The impact upon Ireland of aerial and marine radioactive releases from potential catastrophic accidents at the Sellafield nuclear fuels reprocessing plant*. McGill & Co., (for the Irish government) Dublin.
- (1996) *Climate change and air pollution: the implications for the work of the Countryside Commission*, Countryside Commission, Cheltenham.
- (1996) *The effects of a crude plutonium dispersal weapon in a major population centre* (with David Sumner) International Physicians for the Prevention of Nuclear War, Oxford.

(1994) *Critique of the International Whaling Commission's Revised Management Plan* (with Roger Kayes). Greenpeace International.

(1994) *Consequence Analysis of a Catastrophic Failure of Highly Active Liquid Waste Tanks Serving the THORP and Magnox Nuclear Fuel Reprocessing Plants at Sellafield*. Nuclear Policy and Information Unit, Manchester Town Hall.

(1991) *'Environmental Capacity and the Limits of Predictive Science: the precautionary principle in the control of hazardous substances'* Paper presented to the Joint International Symposium on Hazardous Waste Management, and published in *proc.symp*: Swedish Environmental Protection Agency & CEC, Stockholm.

(1991) *'The Precautionary Principle and the Prevention of Ocean Pollution'* Joint paper with T. Jackson, to 1st International Ocean Pollution Symposium, Puerto Rico. Published in *Chemistry & Ecology*.

(1990) *'Non-Governmental Organisations and International Treaties: the role of Greenpeace'* Seminar series: International Politics of the Environment, Oxford University, School of International Law. Published by Clarendon Press, ed. Kingsbury & Hurrell, of that title.

### **Political Ecology Research Group Reports**

(all PERG reports are deposited with the British Library)

(1990) *An assessment of the feasibility of large scale afforestation in Britain to offset carbon dioxide emissions* Report to the Central Electricity Generating Board (with RJ Kayes and CAC Arden-Clarke) PERG RR-19, Political Ecology Research Group, Oxford.

(1985) *The disposal of nuclear waste to the deep ocean* PERG RR-15, Political Ecology Research Group, Oxford.

(1983) *The health risks of nuclear and coal-fired electricity generation* PERG RR-13 (with RJ Kayes), Political Ecology Research Group, Oxford.

(1983) *The effects of a severe reactor accident at the proposed Sizewell B station upon agriculture and fisheries in the UK and neighbouring countries.* PERG RR-11. Political Ecology Research Group, Oxford.

(1983) *A critical review of emergency planning for nuclear accidents in the UK* PERG RR-12 (with RJ Kayes) Political Ecology Research Group, Oxford.

(1982) *The impact of nuclear waste disposals to the marine environment* PERG RR-8 Political Ecology Research Group, Oxford.

(1980) *The Windscale Fire, October 1957* PERG RR-7, Political Ecology Research Group, Oxford.

### **Books**

(2010) *Questions of Resilience: development aid in a changing climate.* Ethos, Oxford.

(2009) *Chill: a reassessment of global warming theory*. Clairview, Forest Row, England.

(2005) *Beyond Conservation: a wildland strategy* Earthscan, London.

(2004) *Shiva's Rainbow: an autobiography* Ethos, Oxford.

(1980) *The Nuclear Controversy* (with Martin Stott) Town and Country Planning Association, London.

#### Chapters:

(1993) *The Precautionary Principle* (with Jackson and Dethlefsen) in *Clean Production Strategies*. ed. Jackson, Stockholm Environment Institute.

(1992) *Non-governmental organisations and the legal protection of the oceans* (with Kevin Stairs) in *International Politics and the Environment* ed. Hurrell & Kingsbury, Clarendon, Oxford.

(1980) *The assessment and assumptions of risk in The Fast Breeder Reactor*, ed. Sweet, Macmillan, London.

(1976) *Das Theikenmeer Emsland Jahrbuch* (in German).

#### Articles:

- 2011 Big birds in the UK: the reintroduction of iconic species *ECOS* 32 (in press)
- 2010 Lakeland valleys and Somerset hills: a tale of two managements *ECOS* 31 (3/4) 40-44
- 2009 Rewilding the political landscape *ECOS* 30 (3/4)
- 2009 Grazing animals and wildlife: the meaning behind the objectives *British Wildlife*
- 2008 Alladale's Wilderness – seeing through the fence *ECOS* 29 (3/4) 18-24
- 2007 UK Wildlife and Climate Change *ECOS* 28 (3/4) 33-39
- 2007 Avoiding dangerous climate change *ECOS* 27 (2)
- 2006 Home Counties Wildland: the new nature at Knepp *ECOS* 27 (3/4) 44-51
- 2006 Climate change and Gaia *ECOS* 27 (1) pp100-104
- 2005 Climate of Fear *ECOS* 26 (2) pp2-9
- 2005 Carbon Offsets, local renewables and nature conservation – realizing the links *ECOS* 26 (2) pp38-45
- 2004 Towards a Wildland Strategy (editorial) *ECOS* 25 (3/4) p1
- 2004 Capturing carbon and conserving biodiversity *ECOS* 25 (2)
- 2004 To wild or not to wild: the perils of 'either or' *ECOS* 25 (1) 12-17
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