

1. PERSONAL RECORD

Name: Dr David Laurence Higgitt
Date of Birth: 9 March 1965
Current Position: Associate Professor
National University of Singapore
Family Status Married, two children

Education and Qualifications

1987-1990 University of Exeter
PhD in Geography, Faculty of Science, NERC Studentship
"The use of caesium-137 measurements in erosion investigations."
1984-1987 University of Oxford (Keble College)
BA (Hons) in Geography
First Class Honour Moderations, 1985
First Class Honours, 1987.
1976-1983 King Edward's School, Birmingham.
4 A Levels: Geography (A), Mathematics (A), Economics (A), General Studies (A).

Employment and Appointments

NATIONAL UNIVERSITY OF SINGAPORE

2003-present Associate Professor
2001
(01.01-06.01) Visiting Fellow
2002-2003
(12.02-06.03) Visiting Senior Fellow

UNIVERSITY OF DURHAM, UK

2001 -2003 Senior Lecturer in Geography
(Convenor of the Earth Surface Systems Research Group)
2000 Awarded discretionary increments by Staffing Policy Committee
1994-2001 Lecturer in Geography

LANCASTER UNIVERSITY, UK

Lecturer in Geography

UNIVERSITY OF EXETER, UK

Natural Environment Research Council funded research student

Prizes and Awards

2006	Faculty Teaching Excellence Award, National University of Singapore
2006	Visiting Fellowship, University of Queensland, Australia
2001	Gordon Warwick Award of the British Geomorphological Research Group (for contribution to geomorphological research excellence)
2001	University of Durham Excellence in Teaching Award
2001	Hwa Ying Visiting Scholar, Nanjing University, China
1997	Nanjing University Distinguished Visitor Award
1987	Herbertson Dissertation Prize (proxime accessit), University of Oxford
1985-7	Scholarship, Keble College, University of Oxford

2. RESEARCH IMPACT

Research Interests and Record

As a geomorphologist, my research is concerned with the interaction between environmental processes, earth surface materials and the morphological expression of land surfaces and forms that result. In particular, attention is focussed on sediment delivery processes – the temporal and spatial dynamics of sediment production and transfer. This work encompasses themes of soil erosion assessment, construction of sediment budgets and the interactions between erosion processes and surface characteristics. In addition to my scientific research interests I have a track record in pedagogical research concerned with education and educational leadership in the environmental arena.

Soil erosion and land degradation assessment

Soil erosion is a major problem in many world environments but limited data are available on its rates and spatial variability. My initial research developed during my doctorate evaluated the use of the environmental radionuclide caesium-137 (^{137}Cs) for rapid appraisal of erosion status. As part of the work produced by the University of Exeter at this time it has produced a technique that has been adopted by many erosion researchers. My first paper (Zhang, Higgitt and Walling, 1990) was the first application of the technique to Asia and initiated my interest in the assessment of environmental degradation in China (Higgitt and Rowan, 1996; Higgitt, 2000) that subsequently has led to much collaboration with Nanjing University, East China Normal University, Chinese Academy of Sciences and the National University of Singapore. My early work extended the application of radionuclide assessment from agricultural land to other erosion-prone environments (Higgitt et al., 1994; Higgitt and Haigh, 1995) and to investigations of Chernobyl fallout redistribution (Higgitt et al., 1992; 1993). I realised that there was a need for more rigorous examination of the assumptions of environmental mobility and this has been tackled in more recent work (Higgitt, 1995; Higgitt et al., 2000; Lu and Higgitt, 2000; Yeloff et al., 2005). A gamma spectrometry laboratory was established in Durham to advance research into ^{137}Cs applications and investigate potential environmental applications for other gamma-emitting radionuclides (^7Be , ^{210}Pb , ^{226}Ra). It is important that scientific advance in erosion assessment is balanced by a willingness to engage in interdisciplinary research which I have been able to do through my work in China focussed upon land capability assessment, in Jordan as part of the Badia Research and Development

Programme and through EU projects on sustainable use of soil and water resources. My work on the interaction of land degradation and socio-economic factors in drylands (Higgitt, 2000) has led to a request to write a paper for UNESCO (Higgitt, 2004), while I have recently delivered a key note lecture about land degradation in the Mediterranean. I have provided a series of progress reports on soil erosion for *Progress in Physical Geography*.

Sediment Budgets

Soil erosion can lead to off-site impacts and the derivation of sediment budgets involves interpretation of the principal source areas and pathways of sediment transfer. Some of my work extended radionuclide assessment methods to small catchments, coupled with the examination of lake or reservoir sedimentation (Higgitt and Walling, 1993). Deriving information about the potential impact of sediment on water resource management is important in areas where gauging records are sparse and this has been a central theme of an EU FP4 programme (WARMICE) examining sediment budgets in upland areas. I chaired a working party on upland sediment budgets on behalf of the British Geomorphological Research Group and have developed applications of GPS for mapping and evaluation (Higgitt and Warburton, 1999; Warburton, Higgitt and Mills, 2003). Though British uplands are intricate systems I have enjoyed the challenge of working on larger global rivers, in particular the Yangtze. In a series of papers (Higgitt and Lu, 1996, 1999, 2001; Lu and Higgitt, 1998, 2001) novel methods of data extraction in a GIS framework have been developed to analyse spatial and temporal trends in sediment yields of large river basins. This represents the first attempt to extract catchment-delineated variables from geodatabases, which has also led to keynote paper invitations. Current work in China is extending analysis of sediment yield variability and flooding back from contemporary records through the Late Holocene, a theme that has been examined in my recent book (Higgitt and Lee, 2001). Since moving to Singapore, the modelling work on spatial and temporal patterns of sediment delivery has been extended to the Pearl River basin in southern China, the Mekong basin and fieldwork in the Ayeyarwady and Thanlwin Rivers of Myanmar, with plans to extend work into several monsoon-dominated basins.

Interaction between Erosion Processes and Surface Characteristics

In parallel with my work focusing on determining sediment mobility, it became apparent that a significant advance could be made on examining the feedback interactions between sediment mobility, surface configuration and slope development. This theme emerged from a project to examine the geomorphological stability of the desert margin of NE Jordan (Higgitt and Allison, 1998; Allison et al., 2001). Having established that the characteristics of both desert stone mantles and the slopes they cover vary between lithologies (Allison and Higgitt, 1998), attention turned to the characterisation of the surfaces and the homeostasis between form and process (Higgitt and Allison, 1999 a,b). This is evidence of self-organisation which is an emerging idea in geomorphology. There is much to be gained by extending recent ideas on organisation from the physical and biological sciences to geomorphological problems (Higgitt, Rosser and Allison, in press).

Pedagogical Research

I have published widely on aspects of educational research in geography and related disciplines and have been a member of the editorial board of the *Journal of Geography in Higher Education* since 1997 and its editor since 2002. My main focus is concerned with fieldwork skills and the development of sustainability education.

In summary, my research interests and publication record (appended) indicate continued progress towards both the development of new techniques and to theoretical developments in geomorphology, recognised in 2001 through the award of a major prize within the discipline.

3. RESEARCH ACTIVITY

Research Students Supervised

Full time (First or joint supervisor)

- 2007- Salih, A. PhD: Sedimentation issues in large rivers; funded by FASS, NUS
- 2006- Lam Ruixiang, Daryl, M. SocSci Predicting sediment flux in Marina Bay, Singapore; funded by Tropical Marine Science Institute, NUS.
- 1999-2002 Holliday, V. Sediment transfer mechanisms in upland catchments, funded by European Union. Completed within 4 years.
- 1999-2002 Rosser, N. Hydrological processes and slope evolution on stone-covered slopes, Jordan, funded by University of Durham. Completed within 3 years.
- 1998-2002 Mills, A. Peat slide dynamics and mechanisms, funded by University of Durham. Completed within 4 years.
- 1994-1998 Dunsford, H. The response of alluvial fans and debris cones to changes in sediment supply, Upland Britain. Funded by University of Durham (Isabel Fleck Scholarship). Completed within 4 years.
- 1994-1998 Lu, X. Soil erosion and sediment yield in the Upper Yangtze China. Funded by Overseas Research Studentship. Completed within 4 years.

Part Time

- 1998-2001 Akkad, B. Desertification monitoring using remote sensing and GIS, Syria. Funded by ACSAD & self.
- 1993-2001 Quin, A. Cave development in the Matienzo karst, northern Spain. Funded by Lancaster University (staff member)

As Second Supervisor

- 2001-2003 Armstrong, A. Suspended sediment sources in upland rivers, funded by University of Durham
- Magri, O. Funded by University of Malta
- 1997-2000 Holden, J. Funded by University of Durham.
- 1997-2000 Lusby, F. Funded by Overseas Research Studentship

Research Associates Supervised

- 1999 V. Holliday, TLIAG project – development of CAL materials
- 1997 X. Lu, TLIAG project – development and testing of CAL materials
- 1996 E. Twiddy, Consultancy project on shoreline management
- 1993 P. Naumann, TLTP project (Lancaster) – development of CAL materials

Research Grants and Income Generation

External Awards

- 2006 **Public Utilities Board (PUB)**, Singapore: S\$225,000. J. Obbard (PI) 1 co-PI.
- 2006 **Royal Geographical Society (with the Institute of British Geographers)** Expedition Award: Closing the mass balance of the Himalayas – Irrawaddy and Salween sediment loads, Myanmar £10,000. Michael Bird (PI) 6 co-PIs.
- 2005 **SEA-START** Human Impacts on Water, Carbon and Sediment Fluxes in the Southeast Asian Region: Modeling and Field Approaches (IGBP Carbon and Water Project) D Higgitt and Lu Xixi US\$ 20,000

- 2003 **SEA-START** Modelling spatial and temporal dynamics of sediment and carbon delivery to the South China Sea (IGBP South China Sea Pilot Project). Lu Xixi and D. Higgitt US\$ 19,000
- 2003 **National University of Singapore:** Quantification of suspended sediment concentration in large Asian rivers by remote sensing. Lu Xixi (PI) **D. Higgitt** (collaborator) S\$ 51,140
- 2001 **National University of Singapore:** Modelling sediment yield in large Asian Rivers. Lu Xixi (PI), **D. Higgitt** (collaborator) S\$ 54,550.
- 2000 **Royal Geographical Society (with the Institute of British Geographers)** Ralph Brown Expedition Award: Yangtze 2000. **D. Higgitt** (Main applicant), £5,000.
- 1999 **European Union** Framework 4: WARMICE Water Management in a Changing Environment: Impacts of Sediment on Sustainability, 450,000 ECU, 1999-2001. Lead Institution: University of Durham - S. White (co-ordinator), **D. Higgitt**, J. Warburton. Partner Institutions, Institute of Pyrenean Ecology, Spain; Institute of Water Management and Hydraulic Engineering, Austria.
- 1999 **European Union** Concerted Action INCO-DC: Agriculture and Urbanisation in the Mediterranean Region: Enabling Policies for Sustainable Use of Soil and Water, 350,000 ECU, 1999-2002. Lead Institutions: Centre International de Hautes Etudes Agronomiques Mediterraneennes, Paris, France and Polytechnic of Bari, Italy. **D. Higgitt** is the UK partner in project.
- 1997 **HSBC Holdings** Small Grant Scheme: Interaction of erosion and acidification in land degradation, Southern China, £1000. **D. Higgitt** (individual award)
- 1997 **Royal Society** Conference Grant to attend International Association of Geomorphologists Conference, £550.
- 1996 **NERC** AMS / Radiometric Radiocarbon Dating Allocation: No 663/00896 £7,000. R. Allison, **D. Higgitt**, H. Dunsford
- 1992 **British Council** Academic Links with China Scheme: Soil Erosion and Land Degradation in subtropical southern China. **D Higgitt** (then Lancaster University) and Bao Haosheng, Nanjing University, £7,000, 1992-1996.
- 1991 **Scottish Natural Heritage** Wilf Nelson Rum Bursary (field visit), £100.
- 1987 **NERC** Studentship, University of Exeter 1987-1990.

Internal Research Awards

- 2006 **National University of Singapore** Environmental Engineering Seedfund. Fate and Transport of Contaminants in Coastal Water Catchments of Singapore. S\$ 250,000. PI A/P Jeff Obbard, DESE. 10 co-PIs.
- 2005 **National University of Singapore** FASS FRC Workshops on Environmental Processes and Change in the Tropics and on River Basin Dynamics S\$ 12,400

- 2005 **National University of Singapore** FASS SRSS scheme: Editorial assistance for preparation of volume on “Tropical Environments: Processes, change and attitudes” S\$5000
- 2004 **National University of Singapore** FASS FRC Sediment and Biogeochemical fluxes in tropical forest catchments: A sediment budget approach. D.Higgitt (PI) S\$ 50,000
- 1998 University of Durham **Special Equipment Fund** Impacts of sediment delivery on water resource management **D. Higgitt**, Y. Zong, £14000.
- 1997 University of Durham **Special Equipment Fund** Environmental magnetism in sediment tracing and stratigraphical applications **D.Higgitt**, J. Warburton, T. Burt, W. Austin, £3700
- 1997 University of Durham **Special Equipment Fund** Integrated data acquisition system for Earth Surface Systems research, J.Warburton, **D.Higgitt** and R. Allison, £12427
- 1996 University of Durham **Young Staff Award** Strategies for the assessment and rehabilitation of land degradation, £5000.
- 1995 University of Durham **Special Equipment Fund** Sediment production, transfer dynamics and hillslope development in arid environments **D Higgitt**, J. Warburton, R. Allison, £13000
- 1994 University of Durham **Special Equipment Fund** Weathering, sediment production and transfer dynamics, R. Allison, **D.Higgitt**, J. Warburton, D. Donoghue, Y. Zong, £30000.

Funding for Applied Research and Consultancy

- 1996 **L.G. Mouchel Engineering** – Shoreline Management Plan (Geomorphology and Geology, Saltburn to Flamborough Head) (with R. Allison), £5600
- 1995 **Dulas Environmental** - Geomorphological site assessment (II) for wind farm proposal (with R. Allison), £3335
- 1994 **Dulas Environmental** – Geomorphological site assessment (I) for wind farm proposal (with R. Allison), £1880
- 1993 **National Trust and Lancaster University Archaeological Service** – Erosion assessment, Great Langdale, Cumbria, £350

Teaching Development Grants

- 2002 **HEFCE** (FDTL 39/99) Integrating Work-Related Learning into the Curriculum. Fieldwork Practice: £2500 D Higgitt (individual award as sub-project of “Real World”)
- 2002 **Durham Research Projects in Learning and Teaching**: Effective fieldwork – evidence and enhancement: £3676. **D. Higgitt** (individual award)
- 2001 **Durham Excellence in Teaching Award**: £10000 **D. Higgitt** (individual award)

- 1998 **TLIAG** (Durham) Developing Self-paced Courseware in Level One Geography: Phase 2, £3530, 1998-9. **D. Higgitt** (individual award)
- 1998 **European Union:** EU-China Higher Education Programme. Contract holder for 12 month visiting studentship, 1998-9.
- 1996 **TLIAG** (Durham) Developing and Augmenting Self-paced Courseware in Level One Geography, £3329, 1996-7. **D. Higgitt** (individual award)
- 1995 **Teaching and Learning Technology Programme Phase 2** Contributor to GeographyCAL project, co-ordinated by University of Leicester CTI Centre for Geography and Meteorology.
- 1992 **Teaching and Learning Technology Programme Phase 1** Novel Approaches to Teaching Quantitative Methods to Geography Undergraduates Geography NW Consortium – University of Liverpool (lead), Lancaster University, University of Manchester, £163000, 1992-95. **D. Higgitt** co-ordinator of Lancaster contribution.
- 1992 **Enterprise in Higher Education** (Lancaster University) Improving fieldwork provision for increasing student numbers, £10000. **D. Higgitt** (Individual award)

International Research Recognition and Activities

- 2005 International Association of Geomorphologists, co-opted to Executive Committee (2005-09)
- 2004 Convenor Session on Education for Sustainable Development, IGU Congress, Glasgow (special issue produced)
- 2003 Convenor Session on Education for Sustainable Development, RGS-IBG Annual Conference, London (special issue produced)
- 2002 Keynote Lecturer: EU Conference “Local Resources and Global Trades – Environments and Agriculture in the Mediterranean Region”, Rabat, Morocco.
- 2002 Invited Contributor to International Association of Geomorphologists Encyclopaedia of Geomorphology.
- 2001 Visiting Professor, Nanjing University, China.
- 2001 Invited Contributor to UNESCO Encyclopaedia of Urban Sustainability.
- 2000 Convenor of Symposium on “Geomorphological Processes in the Last 100 Years” RGS-IBG Annual Conference. (book produced)
- 2000 Invited to Steering Group Meeting of EU Concerted Action Programme on Interdependency between Agriculture and Erosion, Bari, Italy.
- 2000 Conference Session Chair Erosion and Sediment Transport in Nutrient and Contaminant Transfer, Waterloo, Canada (International Association of Hydrological Sciences).
- 2000 Conference Session Chair Interdependency between Agriculture and Urbanization, Tunis, Tunisia (EU Concerted Action Workshop), April 2000.
- 1999 Keynote Lecturer International Association of Geomorphologists Yangtze Fluvial Conference, Shanghai, China.
- 1999 Invited contributor to the Encyclopaedic Dictionary of Physical Geography (published by Blackwell).
- 1999-2002 Co-convenor BGRG Working Group on Upland Sediment Budgets
- 1996-99 Executive Committee Member, British Geomorphological Research Group and Editor of its newsletter (Geophemera)

1994-97 Research Scientist, Jordan Badia Research and Development programme (Royal Geographical Society and Higher Council for Science and Technology)

Referee for research grants for NERC, National Science Foundation (USA), Austrian Science Fund (FWF), Royal Geographical Society and for numerous international journals and book proposals.

Invited University Research Seminars and Guest Lectures

2007 NUS School of Design and Environment MEM Programme
2006 Macquarie University, Australia (Department of Physical Geography)
2006 Queensland Department of Natural Resources and Mining, Rockhampton
2006 Monash University, Australia (School of Geography & Environmental Sciences)
2006 University of Queensland (School of Geography, Planning & Architecture)
2005 NUS Faculty of Science Frontiers in Science Symposium (NUS, NTU, Taiwan and Nanjing University)
2003 University of Hull, UK (Department of Geography)
2003 University of Manchester, UK (Department of Geography)
2003 National University of Singapore (Department of Geography)
2002 Miami University, Ohio, USA (Department of Geography)
2002 University of Kentucky, Lexington, USA (Department of Geography)
2001 East China Normal University, Shanghai, China (College of Natural Resources)
2001 Institute of Limnology and Geography, Chinese Academy of Sciences, Nanjing, China
2001 Nanjing University, China (Department of Urban and Resources Management)
2001 National University of Singapore (Department of Geography)
2000 University of Dundee (Department of Geography)
2000 University of Nottingham (Department of Geography)
1999 University of Exeter (Department of Geography)
1997 Nanjing University, China (Department of Urban Resources and Environment)
1995 University of Oxford (School of Geography)
1993 University of Durham (Department of Geography – prior to appointment)
1992 University of Liverpool (Environmental Magnetism Group)
1991 Lancaster University (Division of Environmental Sciences)
1988 Institute of Loess and Quaternary Research, Chinese Academy of Sciences, Xian, China
1988 Sichuan University, Chengdu, China (Department of Physics)

Editorial Boards

Journal of Geography in Higher Education. EB since 1997, Editor since 09.2002
Singapore Journal of Tropical Geography. EB since 2004
Geography Compass EB since 2006

4. TEACHING AND LEARNING

Courses Taught at NUS

Level	Title / Description
Postgraduate	GE6216 Changing Nature of Physical Geography GE6770 Graduate Research Seminar GE5217 Environmental Research Methods
Level 4000	GE4211 Catchment Processes and Management
Level 3000	GE4101 Development of Geographic Thought GE3231 Natural Hazards GE3221 Ecological Processes GE3223 Environmental Change in the Tropics
Level 2000	GE2219 Climate, Water and Environment
Level 1000	GE1101E Place, Nature and Society

Courses Taught at Durham since 2000

Level	Title / Description
Postgraduate	Contributor to Postgraduate Research Training and Methods Course
Level 4	M.Sc. Geomorphology and Environmental Change: lectures, practicals, field classes, dissertation supervision (and Acting Director Jan-Sept, 2000)
Undergraduate	
Level 3	Convenor: Integrated Catchment Management
Level 2	Convenor, Drylands Convenor, Karst, Contributor to Geographical Research
Level 1	Convenor, Physical Geography, Convenor, IT for Geographers.

Examining Experience

Appointed External Examiner for Physical Geography and Environmental Management degrees, University of Gloucester (but unable to take up due to move to Singapore)

External Assessor, Diploma in Upland Management, Craven College, North Yorkshire (1992-95)

Moderator, Managing the Environment Unit, Open College for the NW (HE Access Course) (1990-93)

Internal Examiner for 5 PhD / MPhil theses

Case for Teaching Excellence

Awarded University of Durham Excellence in Teaching Award, 2001
Awarded Faculty of Arts and Social Sciences, NUS Excellent Teacher Award, 2006

The claim for excellence was made on the basis of three types of evidence:

- Commitment to teaching innovation and professional development (including grants received for teaching development)
- Publications related to good practice in learning and teaching
- Contribution to national and international initiatives in higher education (particular emphasis on fieldwork design)

Innovation

I have been at the vanguard of innovative practice in teaching and learning as evidenced by a number of grants for educational development (listed within the Research Grants and Income Generation section). Approaches towards teaching IT and quantitative methods and to fieldwork are examples of innovation. Following involvement in two TLTP projects I introduced self-paced practicals into Levels 1 and 2. These have evolved as the IT platform has improved and are now delivered via *duo* (the University of Durham's virtual learning environment). My courses have been the first in the Department to make use of the discussion-board, group management and digital drop box features of *duo*. These innovations are now being introduced through NUS's IVLE.

Fieldwork is a key aspect of geographical investigation but one which requires strategy to encourage enquiry. The Drylands with Fieldwork module (Durham) has embedded a fieldtrip into a module and has consistently earned the highest evaluation in the Department. The format simulates a mini-research project which students present at a course conference. It is also designed to develop teamwork skills among students. These initiatives have been described in a journal paper (Higgitt and Warburton, 1999) and are currently being investigated as part of an FDTL project into incorporating work-place skills into the curriculum

Contribution to Professional Journal and Discipline Networks

Steering Group of LTSN-GEES (2003-2004)

Joint Editor of *Journal of Geography in Higher Education* (from September 2002); Editorial Board Member 1995-present. JGHE is an international journal which publishes subject-specific papers about HE issues and practice.

Secretary of the Higher Education Research Group (of the Royal Geographical Society/Institute of British Geographers) (1999-2003).

Involvement in INLT (the International Network for Learning and Teaching in Geography) including the co-authoring of web-discussion paper on fieldwork practices and coordination of fieldwork project

Involvement in two TLTP projects on design of Computer Assisted Learning materials.

Invited by LTSN-GEES (Learning and Teaching Network for Geography Earth and Environmental Sciences) to be trained to run pedagogic workshops

Published several journal articles (see publication list) and a regular column for a Geography A-Level magazine.

5. ADMINISTRATION and SERVICE

Media

I am in strong demand as a media commentator on environmental news stories (earthquakes, volcanoes, haze, climate change). I contribute several TV, radio and newspaper interviews per year and advise TV production companies on technical content.

Membership of Committees and Working Groups

Faculty Level:

Faculty Curriculum Review Committee
Crisis Management Team (Department representative)

Departmental level:

Teaching Evaluation
Co-ordinator: Research Cluster in Tropical Environments
Research/Teaching Strategies
Undergraduate Advisor (Honours co-ordinator)
Geo Lab (co-ordinator)
Laboratory/Departmental Equipment
Journal Classification
Department Strategy Committee

Administrative Duties at University of Durham (previous appointment)

2003	Evaluation Panel for University Excellence in Teaching Awards, 2003
2002	Convenor, Earth Surface Systems Research Group
2001-2003	Undergraduate Admissions Tutor
2000-	Departmental Internationalisation Group (DIG) a new committee to encourage research collaboration with overseas universities and to oversee exchange programmes. Department representative on University of California Exchange Programme and established student exchange with NUS.
2000-	Member of Appointment Panels for Geography, Wolfson Institute and International Office
1999-2001	Director of Services - responsible for room allocation, departmental laboratories and facilities. Elected position represented on DMG (Departmental Management Group)
1999-2002	Member of DMG (Department Management Group)
1999-2001	Chair, Laboratory, Equipment and IT Committee
2000	Acting Director, MSc in Geomorphology and Environmental Management
1998-2000	Chair, Health and Safety Committee
1997-2000	University Radiation Protection Committee, member
1996-2000	Department Safety Officer
1996-1999	Secretary of Hatfield College Meeting
1996-1999	Research Postgraduates - Recruitment and Admissions (recruitment of research postgraduates doubled during this period)
1994-2000	College Tutor, Hatfield College
1994-1997	Department Joint Consultative Committee

Administrative Duties at Lancaster University (previous appointment)

1993-1994	Director, Environmental Management BSc degree
1993	Director of Part 1 studies
1992	UG Admissions Officer
1992-1994	Department Research Committee

1992-1994	Elected Representative on University Court
1991-1994	Department Laboratory and Safety Officer
1990-1994	Dean, Furness College
1990-1994	University Disciplinary Committee

The wide range of experience and significant load of administrative responsibilities indicate that I have been trusted with many strategic developments.