

CURRICULUM VITAE - DAVID WIELD

Personal Details:

Name:	David Victor Wield	
Nationality:	British	
Educational History:	BSc Honours, ARCS (Physics), Imperial College, London University	1968
	PhD (Materials), London University	1974
Professional Qualifications:	Member, Institute of Materials (MIMMM)	1977
	Chartered Engineer (C Eng)	1978
	Fellow, Higher Education Academy	2007
Languages	English, Portuguese	

Current Employment:

Present Posts:	Professor of Innovation and Development, Open University	
	Co-Director Global Innovation, Innogen Institute, Open University and University of Edinburgh	
Current Research Interests:	Interdisciplinary research in innovation and development where theoretical and applied outputs are likely to have policy implications.	
	<ul style="list-style-type: none">• Innovation, learning and knowledge in life science organizations• Regulatory shaping, risk and governance of technology• International research policy and capacity building	

Current Honorary and Academic Appointments:

Editorial Board, Technology Analysis and Strategic Management	1988-
Editorial Board, Int. J. of Technology Management and Sustainable Development	2001-
External Assessor, Department of International Development, London School of Economics	2006-
Member, Cross-Party Parliamentary Group on Life Sciences, Scottish Parliament	2009-
ESRC Peer Review College	2010-
Series Editorial Board, Genetics and Society Book Series, Routledge	2010-
Visiting Professor, School of Social and Political Science, University of Edinburgh	2012-
Steering Group, British Association of Dermatology Genetic Medicine Group (BADGEM)	2012-
Research Assessor, Carnegie Trust for the Universities of Scotland	2014-

Previous Appointments:

2007-2014	Director, ESRC Centre for Social and Economic Research on Innovation in Genomics (INNOGEN), University of Edinburgh and Open University
1989-1990	Fulbright Senior Scholar, Stanford University and University of California, Berkeley
1980-1999	Lecturer, then Senior Lecturer in Technology Strategy and Development, Open University
1979-1986	Part-Time Senior Lecturer, Graduate School of Planning, Architectural Association
1979-1980	Research Fellow, Technology Policy Unit, Aston University
1978-1979	Research Fellow, Economics Department, Birkbeck College, London University
1976-1978	Associate Professor, jointly attached to Faculty of Engineering and Centre of African Studies, Eduardo Mondlane University, Maputo, Mozambique
1973-1976	Lecturer in Technology and Development, Institute of Development Studies, University of Dar Es Salaam, Tanzania
1970-1973	Research Assistant, Department of Materials Technology, Sir John Cass College, London
1968-1970	Manager, Imperial College Electron Microscopy Consultancy Service

Previous Appointments (selection):

2011-2014	Member, Research Excellence Framework, Sub-Panel 24, Anthropology and Development Studies
2009-2011	Rare Diseases UK Working Party on the Coordination of Research
2006-2008	Member, Research Assessment Exercise (RAE) sub-panel 43, Development Studies
2004-2006	Commissioning Panel, ESRC Non-Government Public Action Programme
1999-2005	Trustee, Science and Society Trust
1996-2001	Visiting Researcher, Science, Technology and Society Program, Engineering Faculty, Stanford University
1995-2000	Executive Committee, British Mozambique Society
1993-1997	Executive Committee, International Association for Technology Assessment and Forecasting Institutions (IATAFI)
1993-1994	Research Associate, Institute of Urban and Regional Development, University of California, Berkeley
1984-1986	Senior Consultant, Greater London Council, London Technology Strategy
1978-1986	Honorary Fellow, Centre of African Studies, Eduardo Mondlane University, Maputo, Mozambique

Research

Research focuses on two related interdisciplinary themes: the policy and management of technology, in public sector, private sector and in public-private networks; and, development policy and practice, with emphasis on industrialization and technology. On the theme of technology policy and management the key research projects have been those on technological change and innovation, industrial-academic relationships, R&D and corporate strategies and risk and precautionary regulation. Most recently, research has been focused within the ESRC Innogen Centre in Edinburgh University and the Open University. In development policy and practice the focus has been on technological capabilities and industrialization. Results have been significant enough to be included in national development planning practice in various countries. Recent work on science, technology and innovation was presented to major conferences of academic and policy experts.

(i) Technology Policy, Innovation and Management

Ongoing Research

- 2002-2014 ESRC Centre for Social and Economic Research on Innovation in Genomics (INNOGEN) £7.8 m over ten years. PI
- 2013-2014 Health Care and Scottish Devolution. £152,000. ESRC. Co-I
- 2013-2014 Science and industrial dynamics in Scotland. £46,000. ESRC. PI

Completed Research

- 2004-2008 Member, Network of Excellence, Policies for Research and Innovation in the move towards the European Research Area (PRIME), EC FP6. Total funding, 3 m euro. Co-I
- 2004-2006 Towards delivering more sustainable waste management practices, £108,000 from ESRC Sustainable Technologies Programme. Co-Investigator.
- 2002-2004 Precautionary expertise (PI). 548,000 euros from DGXII EC.
- 2002-2004 Trading-Up Environmental Standards? Transatlantic governance of GM crops (PI). £111,618 from ESRC
- 1997-2001 Policy Influences on Technology for Agriculture. Co-ordinator for EC DG XII - 838,000 ecu. PI
- 1997-1999 Safety regulation of transgenic products. Co-ordinator of an EC DG XII - funded project, with total funding of 156,000 ecu. PI
- 1995-1998 Innovation and Environmental Policy and Management. Funding of £52,800 from Open University Research Committee. PI
- 1993-1996 Risk and precautionary regulation. Research with Les Levidow, Joanna Chataway and Joyce Tait. Funding of £62,000 (79,000 ecu) from EC DGXII and £75,200 from ESRC. PI
- 1992-1996 Innovative organizations, particularly Learning Organizations. Applied research and development with John Moss Jones and Linda Ludwin. Funding from Milton Keynes Borough Council, Kettering Health Authority and Scott Bader totalling £38,000. PI
- 1992-1997 The capacity for innovation in Small and Medium-sized enterprises in the environmental sector. Research with Robin Roy and Sally Caird. Funding £32,400 from Open University Research Committee. PI
- 1991-1997 Technology and industrial restructuring in Bulgaria and the Czech Republic. Research with Ivo Kovachev and Tom Hewitt. Funding £6,200 (7,900 ecu) from EC DGXII. PI
- 1989-1992 R&D and corporate strategies in UK materials innovating companies. Research with Robin Roy. Funding £43,000 from ESRC-SERC Joint Committee. PI
- 1986-1989 Impact of technical change (particularly information technologies) on managerial work organization in manufacturing and service sectors. Funding £27,000 from Open University. PI
- 1985-1989 Science parks and industrial innovation in Britain. Research with Doreen Massey, Paul Quintas and David Elliott. Funding from ESRC-SERC Joint Committee (£19,000) and Peat Marwick (£6,000). PI
- 1983-1986 The impact of new technologies on Greater London. Funding from Open University Research Committee (£24,000), Greater London Council (£6,000). PI
- 1979-1980 Impact of robotic technologies on work organization in British industry. Research Fellow on ESRC-SERC Joint Committee funded project (Aston)

(ii) Development Policy and Practice, Particularly in the Fields of Industrialization and Technological Change

Completed Research

- 2006 Genomics and Development (SIDA/ESRC), PI £14,000.
- 2005-2009 Ferguson Trust grant to Development Policy and Practice for OU Chair in International Development (Africa) and associated fellowship costs. £650,000
- 2005-2007 Issues involved in Diffusion of Knowledge through Migration of Scientific Labour, £44,000 from ESRC Science in Society Programme, PI

2005-2007	Regulatory practices and challenges of the African Crop Biotechnology Sector, £46,000 from ESRC Science in Society Programme, Co-Investigator
2005	Mapping centres of scientific excellence in Africa, NEPAD, \$10,000, Co-I
2004	Science and technology capacity building in Africa, IDRC Canada/DFID, £12,000. PI
2003-2004	Institutional Impacts of North-South Partnerships in Agricultural Biotechnology, £44,000 from ESRC Science in Society Programme. Co-Investigator
1990-1995, then 2001-2005	University coordination of donor support to higher education in Africa. Four linked projects with funding of £125,700 from SIDA and £5,200 from Eduardo Mondlane University. All projects in collaboration with Eduardo Mondlane University. PI
1997-98	Distance education systems in Mozambique. £39,400 from UEM. PI
1989-1999	The crisis of industrialization and the impact of structural adjustment on technological capabilities in East and Southern Africa. Funding of £53,000 from UK ODA ESCOR and Open University for project 'Developing Technological Capabilities in Tanzania and Zimbabwe'. PI
1987-91	Internationalization of the telecommunications industry. £36,800 from Open University Research Committee.
1987-1994	Food production and food security in Zimbabwe, collaboration with the University of Zimbabwe. External funding totalling £150,200 from SAREC, Rockefeller Foundation (£37,000) and IDRC (£63,260), and £32,500 from Open University Research Committee. PI
1981-1983	Containerisation and port work organization in Maputo, Mozambique
1977-1979	Mozambican industrialization and future economic development
1977-1978	Mozambique migrant labour skills and their industrial utilization
1976-1980	Industry and technology in Zimbabwe. Supported by UNCTAD

Research Student Supervision:

Supervised research focuses on technological change and innovation, organizational innovation, and local and national development strategies

1980-1981	Heloisa Costa 'Housing production and urban planning in Minas Gerais, Brazil'. MPhil obtained 1981 (AA)
1984-1987	Ursula van Gunten 'Rural transformation in Mozambique'. MPhil obtained
1984-1987	John Moss Jones 'Automating managers: the implications of information technology for managers in five manufacturing companies'. PhD obtained 1987
1986-1990	Simon Marvin 'The relationship between local and national policy making in science and technology' (joint supervision). PhD obtained 1990
1987-1991	Richard Heeks 'State Policy, Liberalisation and the Development of the Indian Software Industry' (joint supervision). PhD obtained 1991
1987-1991	Nick Henry 'Britain's new industrial space? A case study of "High Tech Hertfordshire"' (joint supervision). PhD obtained 1991
1989-1992	Joanna Chataway 'The Making of Biotechnology: A Case Study in Radical Innovation' (joint). PhD obtained 1993
1989-1993	Henrietta Lidchi 'Charity, Representation and the Developing World' (joint). PhD obtained 1993
1990-1993	Fiona Russell 'Regulation and technological change: new food legislation' (joint). PhD obtained 1993
1991-1996	Guy Boxall 'New Card Technology in Retail Banking: Competition and Collaboration in the 1990s' (joint). MPhil obtained 1996
1991-2002	Ivo Kovachev 'Revival and Development Strategies for Eastern European Economies in transition' (joint). PhD obtained 2002
1992-1996	Sally Caird 'Team approaches to innovative development projects' (joint). PhD obtained 1996
1992-2004	Caroline Temple-Bird 'Managing the import and use of healthcare equipment in sub-Saharan Africa'. PhD obtained 2004
1993-2003	Linda Ludwin 'The One Shot Deal: Temporary Organizations, UK Feature Film Units and Learning Organization Theory'. PhD obtained 2004
1994-2001	Celia Diniz 'Financial Administration and Accountancy in an African University'. MPhil obtained 2001

1994-2003	John Shepherd 'The influence of standardization and regulation on the development of intelligent networks' (joint). PhD obtained 2004
1995-2004	Linden Vincent 'Science, technology and agency in the development of drought-prone areas: a cognitive history of drought and scarcity'. PhD obtained 2005
1995-2000	Alexandra di Stefano 'Beyond the Rhetoric: A grounded perspective on learning company and learning community relationships' (joint). PhD obtained 2001
1996-2000	Elizabeth McMillan 'Complexity theory and the learning organisation' (joint). PhD obtained 2001
1998-2001	Matthew Hall 'Codification of knowledge in the organization: knowledge management in the UK Post Office' (joint). PhD obtained 2003
2001-2005	Kalpna Chaturvedi 'Technology transfer in the Indian pharmaceuticals industry' (joint). PhD obtained 2006
2003-2005	Karin Boschert 'The changing regulation of agricultural biotechnology in Germany' (joint). PhD obtained 2005
2004-2011	Ann Bruce 'Interests and values and their importance in conflict-based stakeholder interactions in genomics' (joint). PhD obtained 2011
2004-2009	Stuart Parris 'Locational dynamics of the UK genomics industry' (joint). PhD obtained 2009
2004-2009	Farah Huzair 'Innovative capabilities of the agricultural biotechnology sector in Hungary' (joint). PhD obtained 2009
2007-2009	Masuma Farooki 'Global commodity value-chains' (joint). PhD obtained 2010
2007-2012	John Gillott 'How government and regulators pursue their objectives through public and stakeholder engagement' (joint). PhD obtained 2013
2008-2013	Emma King 'Innovation and regulation interactions in the development of clinical stem cell therapies' (joint). PhD obtained 2013. (UoE)
2008-2013	Ali Maleki 'National innovative capabilities of resource rich developing countries' (joint). PhD obtained 2013. (UoE)
2012-	Luis Soares 'IT and communications in rural Tanzania' (joint)
2013-	George Papamichail 'Smart specialization in Europe's follower regions' (joint)
2014-	Federico Vigano 'Reverse engineering as a strategic tool for pharmaceutical (Healthcare) industry' (joint)
2014-	Alex Budd 'Nollywood: growth of a cultural industry in Nigeria' (joint)

Teaching Innovation and Curriculum Development:

Teaching and curriculum development interests have focused on developing new courses and programmes and courses in two broad areas:

(i) Technology Policy, Innovation and Management

2010-12	Member, Team producing the Masters in the Management of Bioeconomy, Innovation and Governance (MSc BIG), University of Edinburgh
2008-2012	Member of the Translational Medicine Masters Programme, College of Medicine and Veterinary Medicine, University of Edinburgh
1993-2005	Developed and jointly coordinated the OU Technology Faculty Doctoral Programme, currently attended by doctoral students from eight faculties of the university. Member of team that produced distance education version of that course (T890), and its replacement, 2005.
1990	Team-taught experimental course at Stanford University focused on technology policy and management for upper undergraduate and postgraduate students of engineering and business, that received an alpha rating from students
1983-1986	Developed materials at the Open University for a range of courses on science policy, information technology policy, innovation and implementation of technological change and design innovation

1973-1978 Developed the first undergraduate and postgraduate courses in 'Science, Technology and Development' at the University of Dar Es Salaam and Eduardo Mondlane University, Mozambique

(ii) Development Policy and Practice

2009- Advisor, Masters in Science, Technology and International Development, University of Edinburgh

1994-2007 Postgraduate Global Programme in Development Management at the Open University.

1980-1998 Developed and co-coordinated the Undergraduate Programmes in International Development at the Open University.

Administration and Management (selection)

2011-2013 Advisory Team ESRC Sustainable Practices Research Group WP on Research and Engagement

2009- Co-Organiser, then Advisor, Edinburgh Global Development Academy

2009-2010 Steering Group, Edinburgh International Development Centre

2008-2009 Steering Group, RCUK Beacons for Public Engagement: Edinburgh Beltane

2006-2008 Member, Africa Strategy Group, Open University (OU)

2006-2008 Member, Board of Directors, International Development Centre, OU

2002-2006 Director, International Development Centre, OU

2002 Director, Postgraduate Global Programme in Development Management, OU

1998 Head of Department, Development Policy and Practice, OU

1991-2000 Director, Centre for Technology Strategy, OU

1990-1992 Member, Vice-Chancellor's Advisory Committee on International Activities, OU

1987-1990 Sub-Dean (Research), Technology Faculty, OU

1985-1986 Coordinator and Senior Consultant of the eight consultants employed to produce the GLC London Technology Strategy, GLC

1985-1989 Founder member and Chair, Development Policy and Practice Research Group, OU

1970-1973 National and Executive Committee Member and Chair, Education Committee, British Society for Social Responsibility in Science

1968-1970 Manager of an Imperial College Industrial Liaison Unit - the Electron Microscopy Consultancy Unit

Contributions to Strategy and Policy Making (selection)

2010 Advisor to consultancy on the UNDP-funded postgraduate programme run by the organizations Economic and Social Research Foundation (ESRF) and Research on Poverty Alleviation (REPOA) in Tanzania and the Institute of Social Studies, Netherlands

2009-2010 Represented University of Edinburgh on the Windsor Group of International Universities

2008 Chair, Working Group on Unlocking Africa's agricultural potential, Foreign Policy Centre/Open University Conference on Going for Growth: Can commodities transform development in Africa and China? December 2008

2006-2007 Member of the team that produced two policy papers for the New Partnership for African Development – NEPAD/African Union Ministerial Conference of Science and Technology, January 2007, and follow-up

2005-2006 Chair and Discussant, Panel on Social and Industrial Impact of Genomics, Genomics Forward Look, BBSRC, December 2005 and February 2006

2004-2005 Lead on the development of a paper on 'Partnerships for building capacity in science and technology in Africa', for Canadian Government as part of the Africa/Canada/UK workshop in Jan/Feb 2005

2004	Invited to develop a scenario on New Technologies over 25 years for the Department for International Development (DFID)
2003	Member of the team that produced the book on monitoring digital divides for the World Summit on the Information Society, Geneva
2002-2003	Member, evaluation team, Sida support to Eduardo Mondlane University, Mozambique
2002	Expert to the Stanford Centre for Economic Policy Workshop on Economic Reform in India
2002	Expert to the Commission on Intellectual Property Workshop on Technology and Intellectual Property
2001-2005	Advisor, Research and Learning, to the proposed Institute of Information and Communications Technology and Technology Park, Mozambique
2000-2001	Leader of evaluation of Swedish assistance to Basic Sciences in Developing Countries and expert to Sida for International Workshop on Basic Sciences, Trieste
1997	Team Leader, Swedish 20 year evaluation of support to Higher Education in Mozambique
1993-2000	Consultant to SAREC on a project for Donors to African Education Working Group on Higher Education concerned with the coordination of donor support. Results have shown the need for improved university coordination of donor support. In March 1995, invited to chair the Working Group of donors and vice chancellors on 'Ownership of Linkages' at the International Conference 'Linkages Revisited', Le Hague
1987-1995	Policy research on South African industrial development, first with the Economic Research on South Africa (EROSA) group and from 1991 Advisor and Assessor to the Economic Trends Research Programme, established as an independent grouping to consider new policies for industrial development for the new government
1984-1986	Undertook two major studies for the Greater London Council. A study of the implications of new information technologies for the finance and retailing sectors in London which formed part of the London Financial Strategy. Second, a major study of technology in the London economy, and its relationship to national policy, published as the London Technology Strategy and in book form as <i>Britain's Industrial Renaissance</i>
1980-1982	Member of the team that produced the first major national study of the Mozambican port and transport system and its role in Southern Africa
1978-1979	Member of UNCTAD project team on the post-independence economy of Zimbabwe. The documents from this report (for the Deputy Secretary-General of UNCTAD, Dr Bernard Chidzero), were published as the Chidzero Report. They became the basis of the first Five Year Development Plan
1976-1978	Mozambique, member of Rhodesia/Zimbabwe team appointed to the Mozambican Government. Resulting documents used and updated between the Geneva Conference on Rhodesia in 1976, and the Lancaster House Settlement Conference of 1980

External Examining/External Advising (selection)

2015	International Visiting Assessment Panel for Research Quality in the Social Sciences, Wageningen University
2007-2014	External Assessor, Development Studies Institute (DESTIN), London School of Economics and Political Science, London

2006	External Assessor, Development Studies, School of Oriental and African Studies, London
1986-1999	External examiner for individual Masters dissertations at Manchester Business School
1984-1989	Senior External Examiner (of 48), Interdisciplinary Honours Degrees, Middlesex Polytechnic
1982-1990	External Examiner, Masters dissertations, Dept. of Science and Technology Policy, Manchester University

External assessor for ten professorial appointments and four Reader appointments.

Research Degree Examiner

External examiner for 33 PhD theses and three M Phil theses at Aston, Brighton, Cambridge, Cardiff, Exeter, Glasgow Caledonian, Leeds, Manchester, Sussex, London (LSE, Birkbeck, SOAS, Imperial), York, and ISS, Erasmus University and Free University, Netherlands.

Internal examiner for 25+ PhD theses.

Publications

Books:

- Braganca, A. de, Munslow, B., Wield, D. and Wuyts, M. (1977) *Zimbabwe - A Questao Rodesiana* Edicoes 70, Lisbon, pp106, translated into English as *Zimbabwe - The Rhodesian Question*, INLD, Maputo, 1980.
- Rhodes, R. and Wield, D. (eds) (1985) *Implementing New Technologies*, Oxford, Blackwell, pp416.
- Barker, C. E., Bhagavan, M., Collande, P. and Wield, D. (1986) *African Industrialisation*, Aldershot, Gower Press, pp226.
- Crow, B., Thorpe, M. et al (eds) (1988) *Survival and Change in the Third World*, Polity Press, pp365.
- Roy, R. and Wield, D. (eds) (1989) *Product design and technological innovation*, Open University Press, pp322 Second Edition.
- Massey, D., Quintas, P. and Wield, D. (1992) *High Tech Fantasies: the image and reality of Science Parks*, Routledge, pp338.
- Hewitt, T., Johnson, H. and Wield, D. (eds, 1992) *Industrialization and Development*, Oxford University Press, pp338.
- Rhodes, E. and Wield, D. (eds) (1994) *Implementing New Technologies: Innovation and the Management of Technology*, NCC-Blackwell, pp458.
- Forbes, N and Wield, D. (2002) *Followers to Leaders: Innovation Management in Newly Industrializing Countries*, Routledge, pp214, ISBN 0-415-25176-1.

Monographs, Journal Special Issues

- Wield, D. (1992) *Forging the Links*, Swedish Agency for Co-operation with Developing Countries - SAREC, Stockholm, pp71.
- Braun, E. and Wield, D. (eds) (1994) *Regulatory Shaping of Technology*, Special Issue of *Technology Analysis and Strategic Management*, Vol 6, No 3.
- Wield, D. (1995) *Beyond the Fragments: Coordinating donor support to African Universities*, SAREC Research Surveys 1995:3, Stockholm, pp117.
- Wield, D (1998) *Swedish Support to University Eduardo Mondlane in Mozambique*, ISBN91-586-7661-9
- Chataway, J., Webster, A and Wield, D (eds) (1999) 'Technologies in Transition', Special Issue of *Technovation*, Vol 19, No 6/7
- Boyle, G, Thomas, C and Wield, D. (eds) (2000) 'Sustainable Futures', Special Issue of *Futures*, April.
- Chataway, J., Kale, D and Wield, D. (eds) (2007) 'The Indian Pharmaceutical Industry Before and After TRIPS', Special Issue of *Technology Analysis and Strategic Management*, 19, 5, September.

Chapters in books

- Wield, D. (1979) 'Mine labour and Southern Mozambique', in *Mozambique*, Centre of African Studies, University of Edinburgh, p78-85.
- Wield, D. (1979) 'Technology in Zimbabwean Industry', in Unctad, *Zimbabwe - Towards a New Order*, Geneva.
- Wield, D. (1981) 'Manufacturing industry' in Stoneman, C *Zimbabwe's Inheritance*, Macmillan, p151-173.

- Wield, D (1982) 'Mozambique - late colonisation and early problems of transition', in White et al (Eds) *Socialist development in the Third World*, Wheatsheaf, p75-113.
- Wield, D (1983) 'Work experience and skills', in First, R *Black Gold*, Harvester 1983 pp77-81.
- Wield, D. (1983) 'Changes in the South African mining industry in the 1970s', in First, R *Black Gold*, Harvester Press, p49-54.
- Steward, F. and Wield, D. (1984) 'Science, planning and the state' (co-authored with F Steward) in McLennan et al (Eds.) *State and Society in Contemporary Britain*, Polity, Oxford, p176-203.
- Wield, D. (1985) 'Exercise '81: The introduction of new manufacturing technologies into Babcock Power Ltd', in Rhodes and Wield, p19-40, *op cit*.
- Wield, D. (1987) 'The technological relevance of Science Parks' in Sunman, H (Ed) *Science Parks and the growth of technology based enterprises*, UKSPA - Peat Marwick, p 45-53.
- Smith, S. and Wield, D. (1988) 'Banking on the new technology: cooperation competition and the clearers', in Harris, L (Ed) *New perspectives on the financial system*, Croom Helm, p240-273.
- Smith, S. and Wield, D. (1988) 'New technology and bank work: banking on IT as an organisational technology' in Harris, L (Ed) pp274-300 *op cit*. Reprinted, in re-edited form in Finnegan, R, Salaman, G and Thompson K (Eds) *Information Technology: Social Issues*, Hodder and Stoughton, p98-113, 1987.
- Wield, D. (1988) 'Industry and industrialization', in Crow, B and Thorpe, M et al (Eds) *Survival and Change in the Third World*, Polity Press, p187-215.
- Wield, D. (1988) 'Making a Living', in Crow and Thorpe p242-260, *op cit*.
- Wield, D. and Rhodes, E. (1988) 'International relocation of industry', in Crow and Thorpe p264-287, *op cit*.
- Wield, D. (1988) 'Sunrise or sunset industries? Technology transfer' in Blackburn P and Sharpe R, *op cit*, p103-129.
- Wield, D. (1992) 'Unemployment and Making a Living', in Allen T and Thomas A (Eds) *Poverty and Development in the 1990s*, Oxford University Press, p 55-77.
- Hewitt, T. and Wield, D. (1992) 'Technology and Industrialization', in Hewitt T, Johnson H and Wield D *Industrialization and Development*, p 201-221.
- Wield, D. and Rhodes, E. (1994) 'New Technologies and the management of technology' in Rhodes and Wield *Implementing new technologies innovation and the management of technology*, p ix-xxi.
- Rhodes, E. and Wield, D. (1994) 'Technology, innovation theory and the implementation process', in Rhodes and Wield, p79-95 *ibid*.
- Hewitt, T. and Wield, D. (1995) 'Technological Capability and Competitiveness', p330-337, in Weston G (ed) *UNIDO: 30 Years of Industrial Development*, ISC, London.
- Levidow, L., Carr, S., Schomberg, R. and Wield, D. (1996) 'Bounding the Risk Assessment of a Herbicide Tolerant Crop' in van Dommelen, A. *Coping with Deliberate Release: The Limits of Risk Assessment*. Tilberg, International Centre for Human and Public Affairs.
- Carr, S., Levidow, L. and Wield, D. (1998) 'Fausses notes dans le concert réglementaire', p129-133, in Philippan, P and Tastemain, C. (eds) Elsevier, Paris.
- Wield, D. (2000) 'Tools for project development within a public action framework', in Eade, D., Hewitt, T and Johnson H. *Development and Management*, Oxfam, pp53-66. Reproduced in *Development Methods and Approaches: Critical Reflections*, p 183-195, Oxfam, 2003.

- Wield, D. and Chataway, J. (2000) 'Unemployment and making a living' in Allen, T. and Thomas, A *Poverty and Development into the Twenty first century*, Oxford University Press, p99-124.
- Wield, D. (2002) 'Planning and organising a research project', in Potter, S. *Doing Postgraduate Research*, Sage, p35-70.
- Wield, D. (2002) 'A development perspective in design', in Coward, Fathers and Thomas, *Design and Development*, UWIC Press.
- Chataway, J., Gault, F., Quintas, P. and Wield, D. (2003) 'Dealing with the Knowledge Divide', in Sciados, G (ed) *Monitoring Digital Divides and Beyond*, Orbicom, Montreal, p 89-117, ISBN 2-922651-03-7.
- Tait, J., Chataway, J. Lyall, C and Wield, D. (2006) 'Governance, Policy and Industry Strategies: Pharmaceuticals and Agro-biotechnology', in Mazzucato, M and Dosi, G (eds.) *Knowledge Accumulation and Industry Evolution: the Case of Pharma-Biotech*, Cambridge University Press, p 378-401, ISBN 0-521-85822-4.
- Chataway, J., Tait, J and Wield, D. (2006) 'Understanding company R&D strategies in Agro-biotechnology: trajectories and blindspots', in McKelvey, M and Orsenigo. L (eds.) *The Economics of Biotechnology*, Edward Elgar, Cheltenham.
- Slater, R., Frederickson, J., Thomas, C, Potter, S and Wield, D. (2006) 'Partnership Working: new roles for local authorities', in Vegh, B. and Royle, J (eds.) *Waste 2006: Sustainable Resource Management*, The Waste Conference Ltd, Warwick University, p 623-632.
- Tait, J. with Wield, D., Bruce, A., and Chataway, J. (2007) 'Health Biotechnology to 2030', in OECD, *The Bioeconomy to 2030*, Paris, p.
- Kale, D., Wield, D and Chataway, J. (2008) 'Diffusion of knowledge through migration of scientific labour in India', in Kumar, K (ed) *Reverse Brain Drain: a reality in the new millennium*, ICFAI University Publications, Hyderabad, India
- Chataway, J., Chaturvedi, K., Hanlin, R., Mugwagwa, J., Smith, J and Wield, D. (2009) 'Building the Case for Systems of Health Innovation in Africa', in Kalua, F.A., Awotedu, A., Kamwanja, L.A. and Saka, J.D.K. (eds.) *Science, Technology and Innovation for Public Health in Africa*, monograph, NEPAD Office of Science and Technology, Pretoria, p7-52.
- Chataway, J., Chaturvedi, K., Hanlin, R., Mugwagwa, J., Smith, J and Wield, D. (2009) 'Technological Trends and Opportunities to Combat Diseases of the Poor in Africa', in Kalua, F.A., Awotedu, A., Kamwanja, L.A. and Saka, J.D.K. (eds.) *Science, Technology and Innovation for Public Health in Africa*, monograph, NEPAD Office of Science and Technology, Pretoria, p 53-93.
- Wield, D. (2010) 'The role of social science in UK science and technology policy', in Yang, Jian and Liu, Bing Ed (eds.) *The Social Action of Science and Technology*, Tsinghua University Press, Beijing, p282-290 (in Chinese).
- Chataway, J., Wield, D and Castle-Clark, S (2015) 'Disruption and experimentation in health research and innovation: new building blocks and architectures', in Cassiolato, J. E and Soares, M.C.C (eds.) *Health Innovation Systems Equity and Development*, E- papers Servicos Editoriais, Rio de Janeiro 978-85-7650-468-9.

Refereed Articles

- Mohan, R., Shields, J., Wield, D. and Goodlad, S. (1970) 'The demand for non-technical studies at Imperial College', *Liberal Education*, 17, 32-37.
- Marlow, P., Presland, AEB. and Wield, D. (1970) 'Some replica techniques for the scanning electron microscope', *Micron* 2, 139-147.
- Wield, D. V. and Gillam, E. (1972) 'Shape memory effect and pseudo elasticity in Cn-Zn-Si alloys', *Scripta Metallurgica*, 6, 1157-1160.

- Wield, D. (1974) 'A short history of industrial development in Tanzania' *Institute of Development Studies Occasional Papers*, Dar Es Salaam, pp21. 1974.
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- Wield, D. (1991) 'Innovation models and their relevance for Science and Technology Policy', to *ANC Science and Technology Policy Group, Johannesburg, December*.
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- Tait, J Wiold, D and Williams, R. (2003) 'Integrated policy making and governance of life science', *Biotech Society international Conference*, Espoo, Finland, 29-30 September.
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- Wiold, D. (2006) 'Higher Education and the Knowledge Economy', *Royal Society South Africa Day Conference*, 30-31 Jan.
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- Wiold, D (2007) 'Innovation', to *India Innovation Conference*, New Delhi, December.
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- Wield, D (2012) 'New promises for old: has the biotech industry matched expectations', *OECD Conference on the Role of Expectations in Biotech Development, 12th November, Paris.*
- Wield, D and Tait, J (2013) 'Science and innovation futures: assessing science, innovation and independence in Scotland', The Hub, Edinburgh, November.
- Chataway, J., Wield, D and Castle-Clark, S (2014) 'Disruption and experimentation in health research and innovation: new building blocks and architectures for public and private sectors', 12th Globelics Conference, Addis Ababa, October 29-31.
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Other Publications (Selection)

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- Carr, S. Levidow, L and Wield, D. (2005) *EU: Precautionary links between science and policy*, Report to EU.
- Chatatway, J. Smith, J and Wield, D. (2006) 'Framing "excellence", institutions and innovation in Africa', *Genomics Network*, Issue 3, March, p 10-11.
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- Tait, J., Chataway, J. and Wield, D. (2007) 'The Case for smart regulation' *Innogen Policy Brief Appropriate Governance of the Life Sciences, No 2*.
- Chataway, J. Tait, J and Wield, D. (2008) 'Off the rails or on the mark?', *Nature Biotechnology Correspondence*, 26(5) 499-501.
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- Tait, J., Chataway, J and Wield, D. (2008) 'Pharmaceutical futures: Health biotechnology to 2030', *Innogen Policy Brief Appropriate Governance of the Life Sciences, No 4*.
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- Chataway, J., Tait, J and Wield D. (2008) 'Off the rails or on the Mark', *Nature Biotechnology Correspondence*, 26, 500-501. doi 10.1038.nbt 0508-500.
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- Omidvar, O., Tait, J and Wield, D. (2014) 'The "disconnect" between science and innovation within Scotland', *ESRC Future of UK and Scotland Innogen Institute Briefing No 1*, March.

Consultancy and Technical Reports (Selection)

- Technology in Zimbabwean Industry*, in UNCTAD 'The Chidzero Report', 1980.
- New technologies in Banking* (co-author) section of London Financial Strategy, Greater London Council, 1985.
- London Technology Strategy* (co-author) Greater London Council, 1986.
- Evaluation of SAREC support to research development in engineering and sciences in Mozambique*, to SAREC, 1991.
- Donor reporting systems in African Universities*, Two volume report to SAREC, 1995.

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Feasibility of Distance Education in Eduardo Mondlane University, 1998.

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Sida's support to University Eduardo Mondlane, Mozambique, 2003, Sida ISBN 91-588-8544-8

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