CURRICULUM VITAE

Name: Kirit Gunvantrai VAIDYA, FRSA (Fellow of the Royal Society of Arts)

Positions: Senior Lecturer in Business Economics, Aston Business School

MSc in International Business Course Director, Aston Business School

Date of Birth: 15th January 1946

Nationality: British

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Higher Education and Qualifications

B.Soc.Sc.(Economics, Politics, Sociology) University of Birmingham, UK. 1964-67.

(Specialisation in Economics, Quantitative Methods and Economic

Development. Awarded the Faculty Plender Prize in 1967).

Employment

Oct 1967 to Sept 1968 Department of Industrial Teaching Assistant

Economics and Business Studies,

University of Birmingham

Oct 1968 to Sept 1970 Graduate Centre for Research Associate

Management Studies, Universities of Aston and

Birmingham

Oct 1970 to Aug 1972 Graduate Centre Lecturer in Economics

for Management Studies

Sept 1972 to March 2006 Aston Business School Lecturer in

Aston University Business Economics

April 2006 to present Aston Business School Senior Lecturer in

Aston University Business Economics

International agencies, companies and universities (please see Sections B and D below for further details) Various consultancy assignments and outside teaching

Information on relevant skills and experience has been provided below in four sections:

Section A: Research (including list of publications)

Section B: Teaching and course development

Section C: Academic administration

Section D: Consultancy and official reports

A. RESEARCH (INCLUDING LIST OF PUBLICATIONS)

Areas of research

Current research:

- (a) technology transfer and industrial development (with special reference to China);
- (b) technology-based collaborations between foreign and Chinese firms;
- (c) capability development of Chinese industrial enterprises as latecomers, and
- (d) public works programmes in developing countries, wage rates, labour supply, asset creation and social protection.

Past areas of research:

- (a) China's revealed comparative advantage;
- (b) value of rural traveller's time savings in low-income countries;
- (c) economics of labour intensive public works programmes in developing countries, and
- (d) energy economics.

Research Contracts

Years	Subjects and collaborators	Value
1975 - 1981	With S C Littlechild, Social Science Research	£40,000
	Council funded project "Mathematical	
	Programming Models of the UK Energy Sector"	
1982 – 1992	1982 – 1992 Various small personal grants from the European	
	Commission, International Labour Organisation	total)
	and United Nations Industrial Development	
	Organisation for research on (a) energy modelling,	
	(b) economics of labour-intensive civil construction	
	in developing countries and (c) the role of enterprises in	
	industrial development	
1993 - 1995	With D J Bennett, British Council Academic Links	£12,000
	with China Scheme funded project "Industrial	
	Development and Technology Transfer under	
	China's Economic Policy Reforms"	
1994 - 1996	With A Bridgwater, EC - AIR Programme (DGXII)	£45,000
	funded project "Models for the Economic Evaluation of	(approx)
	Biomass Production as an Alternative Land Use in the	
	European Community"	
1996 – 1998	With D J Bennett, Engineering and Physical Science	£108,000
	Research Council (EPSRC) funded project "Evaluation	
	Models for Global Manufacturing - Technology	
	Valuation"	
1998	With D J Bennett, EPSRC Foreign Scholars Fellowships	£5,500
1998 – 1999	With D J Bennett, EPSRC Technology Transfer	£22,500

	Secondment	
1998 – 1999	With D J Bennett, D Parker, F Steward and Xiamin Liu, to the European Commission on a study on medium to long term impact of technology transfer to China	ECU 49,800
2001–2005	With Farhad Ahmed (IT Transport) funding from DFiD Knowledge and Research fund for valuing rural travel time savings in LDCs.	£50,000

Supervision and examination of Research Students

Supervision of 5 PhD students to completion.

Examination (internal and external) of 4 PhD students.

List of Publications

Book

Littlechild S C and Vaidya K G (1982) *Energy Strategies for the UK*, George Allen & Unwin, London.

Journal Articles

Academic Journals (refereed)

Vaidya K G (1972) "Evaluation of Indian fertiliser projects: an application of consumers' and producers' surplus: comment", *American Journal of Agriculture Economics*, Vol. 52, No. 2.

Littlechild S C and Vaidya K G (1976) "The propensity to disrupt and the disruption nucleolus of a characteristic function game", *International Journal of Game Theory*, Vo1.5, Issue 2/3.

Vaidya K G. (1978) "Distribution of benefits from multinational plants in developing countries: a game theoretic approach". *I.T.C.C.* (*International Technical Co-operation Centre*) *Review*, Vol. VII, No. 1 (25), January.

Tavakoli A and Vaidya K G (1979) "Optimal allocation of water for rural and urban use in developing countries with special reference to Iran", *I.T.C.C. Review*, Vol. VIII, No. 1 (19), January.

Carey M, Littlechild S C, Soldatos P G, Vaidya K G and D Basu (1979) "The Birmingham Energy Model: a long-term programming model of the British energy sector", *Economics of Planning*, Vol. 15, No. 1.

Soldatos P G, Tzoannos J and Vaidya K G (1979) "EEC energy policy and the UK", *Energy Economics*, Vol. 1, No. 3.

Bennett D J, Vaidya K G, Wang X M and Zhu F D (1995) "Technology transfer under China's economic reforms: Business environment and success factors", *Technology Management: Strategies and Applications*, Vol. 2, No. 1.

Vaidya K G and Wang X M (1995) "Reasons for sustained and high speed economic development in East Asia" (in Chinese), *China Industrial Economy*, 1995, No. 2.

Bennett D J, Vaidya K G, Wang X M and Zhu F D (1997) "Technology transfer and Chinese government policy: Opportunities and implications for business", *Technology Management: Strategies and Applications*, Vol. 3, No. 2.

Barbosa F and Vaidya K G. (1997) "Developing technological capabilities in an industrialising country: The case of two Brazilian steel companies", *Technology Management: Strategies and Applications*, Vol. 3, No. 3.

Bennett D J, Zhao H Y, Vaidya K G and Wang X M (1997) "Transferring manufacturing technology to China: Supplier perceptions and acquirer expectations, *Integrated Manufacturing Systems: The International Journal of Manufacturing Technology Management*, Vol. 8, No. 5.

Zhao H Y, Bennett D J, Vaidya K G and Wang X M (1997) "Perceptions on the transfer of technology to China: A survey of British companies", *Technology Management: Strategies and Applications*, Vol. 3, No. 3.

Bennett D J, Vaidya K G and Zhao H (1999) "Valuing machine tool technology transferred to China: Relating value to product attributes and customer preferences", *International Journal of Operations and Production Management*, Vol 19, Nos. 5 / 6.

Yingqi Wei, Liu X, Parker D and Vaidya K G (1999) "The regional distribution of foreign direct investment in China" *Regional Studies*, Vol 33, No. 9.

Bennett D J, Liu X, Parker D, Steward H F and Vaidya K G (2001) "Technology transfer to China: A study of strategy in 20 EU industrial companies", *International Journal of Technology Management*, Vol 21, Nos. 1 / 2.

Liu X, Parker D, Vaidya K G and Wei Y (2001) "Impact of foreign direct investment on labour productivity in the Chinese electronic industry" *International Business Review*, Vol 10, pp 421-439.

Bennett D J, Vaidya K G, Zhao H and Brittan S (2002) "International technology transfer and collaborative new product development: evidence and a case from the machine tool industry" *International Journal of Technology Transfer and Commercialisation*, Vol 1, Nos. 1 / 2.

Bennett D J and Vaidya K G (2005) "Meeting technology needs of enterprises for national competitiveness" *International Journal of Technology Management*, Vol 32, Nos. 1 / 2.

Vaidya K G, Bennett D J and Xiaming Liu (2007) "Is China's manufacturing sector becoming more high-tech? Evidence on shifts in comparative advantage, 1987-2005" *Journal of Manufacturing Technology Management*, Vol 18, No 8.

Thomas, E and Vaidya K G (2009) "National system of innovation and technological learning: An integrated framework for understanding technological capability development in the Russian forestry sector" *International Journal of Technological Learning, Innovation and Development*, Vol 2, No 4.

Other Journal Articles

Overend J and Vaidya K G (1992) "Brumcars and the economic environment", *Computers in Higher Education Economic Review (CHEER)*, February.

Bennett D J and Vaidya K G (1996) "How Much is Technology Worth?" (Guest Editorial), *Technology Strategies*, No. 125, July/August.

Bennett D J, Vaidya K G, Zhao H Y and Wang X M (1997) "Technology Transfer to the China Machine Tool Industry: The Need for a Technology Valuation Model", *Industry and Education*, Vol. 11, No. 1, February.

Bennett D J, Vaidya K G and Zhao H Y (1997) "Technology Collaborations With Chinese Enterprises: Should Lions Dance With Pandas?" *Aston Business School MBA Network*, Summer.

Conference Papers

Published in Proceedings and Other Refereed

Bennett D J, Vaidya K G, Wang X M and Zhu F D (1994) "Strategies for industrial development and management of technology under China's economic policy reforms" in *Operations Strategy and Performance: Proceedings of European and Operations Management Association First International Conference*, European Operations Management Association/University of Cambridge.

Barbosa F and Vaidya K G. (1995) "Developing technological capabilities: The case of a Brazilian steel company" in D Bennett and F Steward *Technological Innovation and Global Challenges: Proceedings of the European Conference on Management of Technology*, Aston Business School, Aston University, July.

Bennett D J, Vaidya K G, Zhao H Y and Wang X M (1995) "Transferring Technology into China: Perceptions of foreign companies" in D Bennett and F Steward *Technological Innovation and Global Challenges: Proceedings of the European Conference on Management of Technology*, Aston Business School, Aston University, July.

Bennett D J, Vaidya K G, Zhao H Y and Wang X M (1996) "Technology transfer to the China machine tool industry: The need for a technology valuation model" in Robson E H (Ed) *Helping Industry Innovate: Proceedings of TTI '96 Technology Transfer and Innovation Conference*, Teaching Company Directorate, London.

Bennett D J, Vaidya K G, Wang X M and Zhao H Y (1996) "Transferring manufacturing technology to China: Supplier perceptions and acquirer expectations" in Voss C (ed) *Manufacturing Strategy: Operations Strategy in a Global Context: Proceedings of the European Operations Management Association 3rd International Conference*, London Business School/European Operations Management Association, London.

Bennett D J, Vaidya K G, Wang X M, Zhao H Y and Hu Y P (1996) "China's electronics industry and the globalised technology market" in Mason R M, Lefebvre, L A and Khalil T (eds) Management of Technology V - Technology Management in a Changing World: Proceedings of the Fifth International Conference on Management of Technology, Elsevier, Oxford.

- Bennett D J, Vaidya K G and Zhao H Y (1996) "Evaluation models for global manufacturing: The valuation of technology when transferred from the UK to the China machine tool industry", *Workshop on International Manufacturing*, University of Cambridge, September.
- Bennett D J, Vaidya K G, Wang X M and Zhao (1997) "Globalised manufacturing and technology transfer strategies: The development of a technology valuation model" in Mueller H, Persson J-G and Lumsden K (Eds) *The Creation of Prosperity, Business and Work Opportunities Through Technology Management: Proceedings of the Sixth International Conference on Management of Technology*, SMR The Swedish Society of Mechanical Engineers, Naval Architects and Aeronautical Engineers (Stockholm), Gothenberg, Sweden, June.
- Bennett D J, Vaidya K G, Zhao H Y and Wang X M (1997) "The International Transfer of manufacturing technology Reconciling suppliers' and acquirers' perceptions of value" in *Proceedings of 14th International Conference on Production Research*, Osaka Institute of Technology and Satsunan University, Osaka, Japan, August.
- Bennett D J, Vaidya K G and Zhao Hongyu (1997) "Analysing technology based strategic alliances between foreign and Chinese firms" paper presented at *The British Academy of Management Annual Conference*, London Business School, London, September.
- Bennett D J, Zhao H Y and Vaidya K G (1997) "International manufacturing and technology transfer: Considerations of transfer value", *Research Symposium on International Manufacturing*, Cambridge University, September.
- Zhao H Y, Bennett D J, Vaidya K G, Wang X M and He J S (1998) "International technology transfer strategies: Transfer value considerations within the context of collaboration arrangements" *7th International Conference On Management Of Technology*, Orlando, Florida, February.
- Bennett D J, Vaidya K G and Zhao H Y (1999) "Technology transfer through international manufacturing networks: Valuing technology from an owner's perspective" in Batezzaghi, E, Filippini, R, Spina, G & Vinelli, A (eds) *Managing Operations Networks: proceedings of Euroma Conference*, Padua, Italy.
- Bennett D J, Vaidya K G, Zhao H Y and Brittan S (1999) "International technology collaboration for new product development" in Khalil, T, El-Gammal, H, Lefebvre, L, Hosni, Y & El-Laithy, H (eds) *Civilization, modern technology and sustainable development: proceedings of* 8th *International Conference on Management of Technology*, Cairo, Egypt.
- Liu X, Parker D, Vaidya K G and Wei Y (1999) "Changes in China's comparative advantage in manufacturing 1987-95: A statistical study" in *Managing Diversity Proceedings of BAM 99 Conference*, Manchester Metropolitan University, Manchester.
- Liu X, Parker D, Vaidya K G and Wei Y (1999) "Impact of foreign direct investment on labour productivity in the Chinese electronic industry" in *Managing Diversity Proceedings of BAM 99 Conference*, Manchester Metropolitan University, Manchester.
- Vaidya K G, Bennett D J, Parker D, Steward H F and Liu, X (1999) "The medium to long term impact of transferring EU technology to China" in *Developing International Manufacturing Capabilities: 4th International Manufacturing Research Symposium*, University of Cambridge, Cambridge.
- Bennett D J, Vaidya K G and Ming, W X (2000) "Partnership arrangements for international technology transfer: Investment and techno-economic security considerations" in Machuca J A D

and Mandakovic, T (eds) *Proceedings of the First World Conference on Production and Operations Management*, University of Sevilla, Spain.

Bennett D J and Vaidya K G (2001) "Meeting technology needs of enterprises for national competitiveness" *Management of Technology: Selected Discussion Papers presented at the Vienna Global Forum*, UNIDO, Vienna, 29-30 May.

Zhang Gang, Bennett D J and Vaidya K (2001) "From Transferred Technology to Technological Capability: A Framework for examining the Acquisition of Technological Capability by Chinese Enterprises" in *Global Integration: Symposium Proceedings of the 6th Research Symposium on International Manufacturing*, University of Cambridge, 9-11 September, University of Cambridge: Cambridge, pp 186-195.

Bennett D J and Vaidya K (2002) "Technology transfer and sustainable development for developing countries" in *Restructuring Global Manufacturing: Towards Global Cooperative Supply Networks, Proceedings of the 7th Annual Cambridge International Manufacturing Symposium, University of Cambridge, 11-13 September, University of Cambridge: Cambridge.*

K Vaidya and F Ahmed (2004) "A practical methodology for identifying poor and non-poor travellers in roadside surveys and defining poverty thresholds" in *Proceedings of the 10th World Conference on Transport Research*, 4th – 8th July, Istanbul

F Ahmed and K Vaidya (2004) "The valuation of travel time savings in Least Developed Countries: Theoretical and empirical challenges and results from a field study" in *Proceedings of the 10th World Conference on Transport Research*, 4th – 8th July, Istanbul

David Bennett, Matthew Hall, He Jinsheng, Kirit Vaidya and Wang Xing Ming (2006) "The reality of transferring technology to China: What has been learned after 15 years?" *Paper presented at the IAMOT Conference, Tsinghua University, April, Beijing.*

Ahmed F, Vaidya K G and Wardman M (2007) "Rural travellers' time savings in developing countries: Can they be measured and do they matter? (#1644)" *Paper presented at 11th World Conference on Transport Research, University of California Berkeley, 24th – 28th June.*

Vaidya K G, Ahmed F and Wattam M (2007) "Socio-economic investigations for rural value of time studies in developing countries: Combining qualitative and quantitative methods (#1646)" Paper presented at 11th World Conference on Transport Research, University of California Berkeley, 24th – 28th June.

Vaidya K G and Ahmed F (2007) "Quantification of demand for an employment guarantee under South Africa's Expanded Public Works Programme (EPWP): Estimating the labour supply response under rationing", paper presented at "Prioritising Employment Creation in government Policies and Investments in Infrastructure Programmes", ILO 12th Regional Seminar for Labour-Based Practitioners, 8th – 12th October 2007, Durban, South Africa

Thomas E and Vaidya K G (2008) "Technological learning, capability accumulation and national system of innovation: Catch-up model for Russia's forestry sector", paper presented at *IAMOT* 2008 (17th International Conference on the Management of Technology), 6th-10th April 2008, Dubai

Other Conference and Seminar Papers

Carey M, Littlechild S C and Vaidya K G (1975) "UK energy sector: A prototype mathematical programming model", paper presented at *Management Science Seminar*, Institute of Advanced Management Studies, Brussels, October.

Vaidya K G (1978) "Labour supply for labour-intensive rural road construction in Kenya", paper presented at the *4th National Development Research Conference*, Strathclyde University, Glasgow, 26th-29th September.

Vaidya K G (1981) "The Birmingham Energy Model: final results", paper presented at *AUTE Workshop: Economics and Modelling of Energy Policy*, April.

Ogazi P and Vaidya K G (1981) "The place of plantain in bakery products production: economic aspects", paper presented at the *VIth African Horticultural Symposium on the Resources of African Fruits and Vegetables*, University of Ibadan, Nigeria, July.

Vaidya K G (1983) "Cost to the next generation of minimising our energy costs: an application of the Birmingham Energy Model", paper presented at the *Energy System Analysis and Modelling Workshop*, European Institute for Advanced Studies in Management, Brussels, March.

Vaidya K G (1988) "Problems of rehabilitating the rural infrastructure: some generalisations and lessons from the Laos experience", paper presented at the *Project Rehabilitation in Developing Countries Conference* at the University of Bradford Development and Planning Centre, December.

Overend J and Vaidya K G (1992) "Brumcar in an information rich environment", paper presented at *Conference on Computer Applications in the Social Sciences*, Portsmouth Business School, University of Portsmouth, 14-15 September.

Vaidya K G. (2005) "International Technology Transfer and Development of China's Technological Capabilities" *Paper presented at the Indian Institute of Management, Ahmedabad and the Indira Gandhi Institute for Development Research, Mumbai,* September.

Book Review

Vaidya K G (1989) 'Review of: C Conroy and M Litvinoff "The greening of aid"' in *Geographical*, January.

Papers in Edited Books

Vaidya K G (1993) "Industrial development policies: a critique of economic analysis and a case for a strategic framework" in El-Namaki M S S, Kim K S and Sander H (eds) *Trade and Industrialisation: Policy Issues and Perspectives for Developing Countries*, Maastricht School Management, Netherlands.

Zhao H Y, Bennett D J, Vaidya K G, Wang X M and He J S (1998) "International Technology Transfer Strategies: Transfer value considerations within the context of collaboration arrangements" in Lefebvre L A, Mason R M and Khalil T (eds) *Management of Technology, Sustainable Development and Eco-efficiency*, Elsevier, Amsterdam.

Parker, D and Vaidya K G (2001) "An economic perspective on innovation networks" in Jones, O, Conway, S and Steward, F (eds) *Social Interaction and Organisational Change: Aston Perspectives on Innovation Networks*, Imperial Press, London.

Departmental Working Papers

Littlechild S C and Vaidya K G (1972) "Planning the schedule of programmes for a broadcasting station: an application of linear programming", *Graduate Centre for Management Studies Discussion Paper No. 38*, September.

Vaidya K G (1974) "Evaluation of agricultural mechanisation schemes in developing countries", *University of Aston Management Centre Working Paper No. 8*, April.

Vaidya K G (1975) "Notes on application of mathematical programming in evaluating benefits from and financing feeder road projects", *University of Aston Management Centre Working Paper No. 45*, September.

Carey M, Littlechild S C and Vaidya K G (1976) "The Birmingham Energy Model :an introduction", University of Birmingham, *Faculty of Commerce and Social Science Discussion Paper, Series B, No. 35*, July.

Carey M, Littlechild S C and Vaidya K G (1976) "The UK energy sector: a cost-minimising model with fixed demands", University of Birmingham, *Faculty of Commerce and Social Science Discussion Paper No. 36*, July.

Littlechild S C and Vaidya K G (1978) "UK energy forecasts: Department of Energy and Birmingham Energy Model", University of Birmingham, *Faculty of Commerce and Social Science Discussion Paper No.* 52, October.

Littlechild S C and Vaidya K G (1978) "The Birmingham Energy Model: a progress report", University of Birmingham, *Faculty of Commerce and Social Science Discussion Paper No. 54*, January.

Bennett D J, Vaidya K G, Wang X M and Zhao H Y (1996) "Transferring Technology to China: Perceptions of British Companies", *Aston Business School Research Paper Series*, *RP9608*, August.

Bennett D J, Vaidya K G, Zhao H Y and Wang X M (1996) "Transferring Manufacturing Technology to China: Supplier Perceptions and Acquirer Expectations", *Aston Business School Research Paper Series*, *RP9614*, December.

Wei Y, Liu X, Parker D and Vaidya K G (1998) "The regional distribution of foreign direct investment in China" *Aston Business School Research Paper Series No RP9809*, October.

Relf C and Vaidya K G (1998) "International perspectives on public works programmes" *Aston Business School Research Paper Series No RP9824*, October.

Liu X, Parker D, Vaidya K G and Wei Y (2000) "Changes in China's comparative advantage in manufacturing 1987-95: A statistical study" *Aston Business School Research Paper Series*.

Ahmed F and Vaidya K G (2005) "The valuation of travel time savings in developing countries: Theoretical and empirical challenges and results from a field study" *Aston Business School Research Paper Series No RP0516*.

B. <u>TEACHING AND COURSE DEVELOPMENT</u>

Experience

My current and recent teaching experience is on courses at postgraduate, undergraduate and post-experience levels at Aston and other institutions. The main areas of teaching are business economics and strategy and international business.

Current postgraduate and undergraduate teaching at Aston

MBA Business Economics and Strategy

Undergraduate Business Economics

Emerging and Transition Economies

Supervision of numerous MBA and MSc dissertations

Past postgraduate and undergraduate teaching at Aston

International business, advanced topics in international business, economics and management of public enterprises, development economics, country economic assessment, transport economics, energy economics and quantitative methods.

Mentorship of a number of new members of staff.

Current and recent executive education and professional seminars

Contribution to Aston Executive Development Programme

ICL/Fujitsu Programme
Powergen Programme
Lloyds TSB Senior Executives Programme
British Council sponsored course for Senior

British Council sponsored course for Senior Egyptian Public Sector Managers Managing Economic Development course for senior civil servants and managers from

developing countries

Aston Provadis MBA Programme Germany

Aston Provadis MBA Programme, Germany British Steel / Corus Diploma / MBA Programme

Outside Teaching and Executive Seminars

Visiting lecturer teaching "Public enterprise management and regulation" on the University of the West Indies (Mona Campus, Jamaica) Master in Public Sector Management Programme (1995 - 1999).

Visiting lecturer teaching "Government, industry and the firm" course on the Birmingham University Business School MBA programme (1989 - 1993).

Occasional contributor on the TSB Senior Managers Course at the TSB Management College (1989 - 1992).

British Council sponsored seminar "Commercialisation and Privatisation of the Egyptian Public Sector" for Senior Egyptian Public Sector Managers at the Government of Egypt Industrial Management Institute, Cairo (November 1993)

ILO (International Labour Organisation) sponsored seminars on rural roads development for civil servants at Bina Marga (Roads Department), Government of Indonesia, Jakarta, Indonesia (September 1995).

British Council sponsored seminar "Industrial Development and Technology Transfer under China's Economic Policy Reforms" for Chinese enterprise managers, civil servants and academics at Renmin University, Beijing (April 1996).

SIDA (Swedish International Development Agency) sponsored seminars on rural roads development for Ministry of Communication, Transport, Post and Construction and provincial staff in Luang Prabang, Lao P.D.R. (August 1996).

ILO International Training Centre. Contributor to validation of ILO Training Programme on "Mitigating a Jobs Crisis: Innovations in Public Employment Programmes (IPEP)" Turin, Italy (April 2010).

Course development

Between 1990 and 1999, overseeing the core economics and international business teaching in Aston Business School including the related management of resources and introduction of improvements.

Development of the MSc International Business programme, the undergraduate International Business and Economics degree and MBA and MSc modules on business economics and international business.

C. ACADEMIC ADMINISTRATION

Chair: Aston Business School Technology Strategy Group

Member: Aston Business School Board

Formerly, Chair of Aston Business School Technology in Learning and Teaching Group, admissions tutor for the undergraduate IBML (International Business and Modern Languages) course and course organiser and project tutor for the Diploma / MBA programme for mid-career managers.

D. <u>CONSULTANCY AND OFFICIAL REPORTS</u>

Consultancy Assignments

Consultancy and research assignments over 25 years in some 20 countries for international and national development and aid organisations (including Asian Development Bank, CARE, European Commission, ILO (International Labour Organisation), UNIDO, DANIDA (Danish International Development Agency), SIDA (Swedish International Development Agency), DFID (Department for International Development, UK), UNDP and the World Bank on the economic,

socio-economic and management aspects of labour-based and other rural development projects and industrial development strategies.

1.	May-July 1973	Seconded by the University of Aston Management Centre to Wilmot Breeden Ltd. to make an economic evaluation of installation of a new production process.
2.	July 1975- February 1979	Consultant to Ministry of Overseas Development, UK and Government of Kenya on labour supply for a labour intensive road construction programme in Kenya.
3.	April 1980- October 1981	Consultant to the International Labour Organisation (ILO) on the economics of labour-intensive road construction in Botswana.
4.	January 1982- July 1983	Consultant to the European Economic Community on energy modelling.
5.	December 1982- July 1983	Consultant to the ILO and USAID on the economics and management of labour-based road construction in the Philippines.
6.	May 1983	Consultant to the ILO on the feasibility of labour-based road construction in the People's Democratic Republic of Yemen.
7.	September 1983	Consultant to the ILO and UNDP on assessment of labour availability for rural labour-based road construction in Laos.
8.	August - September 1985	Consultant to the ILO and UNDP on assessment of labour supply and economic cost evaluation for labour-based road construction in Laos.
9.	June- September 1986	Consultant to the ILO and NORAD on assessment of labour supply and economic evaluation for the Rural Roads Maintenance Programme in Tanzania.
10.	August- September 1988	Consultant to IT Transport Ltd. on project screening and labour supply for rural road construction by labour-based methods in Thailand.
11.	December 1988- April 1989	Consultant to ILO and UNDP on the economic and policy aspects of rural road rehabilitation and maintenance by labour-based methods in Uganda.
12.	February- March 1990	Consultant to ILO and UNDP to carry out a project review and make proposals for an expanded labour-based road works programme in Laos.
13.	December 1991- February 1992	Consultant to UNIDO on strategic management of industrial development and the role of enterprises in developing countries.

14.	June- July 1992	Consultant to the World Bank on preparing a project proposal for a labour-based rural infrastructure rehabilitation programme in Laos.
15.	September- October 1992	Consultant to ILO and NDE (National Directorate of Employment, Nigeria) on labour availability and socio-economic and economic evaluation of labour-based infrastructure works.
16.	May-June 1993	Consultant to IT Transport and DANIDA on a mid-term review of a labour-intensive rural roads programme in Zimbabwe.
17.	August 1993 December 1995	Consultant to ILO on economic and socio-economic aspects of labour-based road construction in Indonesia.
18	January 1994	Consultant to IT Transport and CARE on economic appraisal of rural labour-intensive transport projects in Bangladesh.
19.	May-August 1996	Consultant to IT Transport and SIDA on the identification of a labour-intensive rural roads development programme in Laos.
20.	March-April 1997	Consultant to IT Transport and Government of South Africa on the role of public works programme in developing countries.
21.	March-April 1998	Consultant to IT Transport and Asian Development Bank on planning a labour-intensive rural infrastructure improvement programme in Cambodia.
22	March-April September 1999	Consultant to IT Transport and DFID (Department and for International Development, UK) on developing a labour-intensive rural infrastructure improvement programme in Vietnam
23.	January-October 2000	Consultant to IT Transport and Asian Development Bank on benefit monitoring and evaluation of a labour-intensive rural infrastructure improvement programme in Cambodia.
24.	May-August 2001	Consultant to IT Transport and DFID on a study of value of time savings from transport improvements in Bangladesh.
25.	December 2001	Consultant to ILO on preparation of a strategy document for a labour-based rural infrastructure works programme in Madhya Pradesh, India.
26.	January-February 2002	Consultant to UNIDO on development of a framework for technology transfer to developing countries.
27.	March-April 2002	Consultant to IT Transport and Asian Development Bank on benefit monitoring and evaluation of a rural infrastructure improvement programme in Cambodia.

28.	September 2003 - April 2004	Consultant to ILO on a labour-based rural road maintenance strategy in MP State, India.
29.	April-May 2004	Consultant to ILO on development of a labour-based rural roads maintenance strategy in Lao PDR.
30.	May-July 2005	Consultant to IT Transport and DFID on a study of value of time savings from transport improvements in Ghana and Tanzania.
31.	December 2006 - 2007	Consultant to IT Transport and Shisaka, South Africa, on February estimating the supply of labour for an extended EPWP (Expanded Public Works Programme).
32.	May-July 2007	Consultant to IT Transport and Shisaka, South Africa on the mid-term review of the EPWP.
33.	September - November 2007	Consultant to ILO Office in Islamabad on ILO's role in the One UN Programme in Pakistan
34.	October 2007 - 2008	Consultant to IT Transport and Shisaka, South Africa on February modelling labour supply for an extended EPWP (Expanded Public Works Programme)
35.	August - October 2008	Consultant to ASIST-AP, ILO on wage rate and labour supply assessment for public works programmes in Timor Leste
36.	February 2009 - February 2010	Consultant to ILO on assessment of the Karnali Employment Programme and development of an employment based social protection scheme for Nepal
37.	September 2009 - June 2010	Consultant to ILO on a study of wage rates for a public works based social safety net in Cambodia.
38.	November 2010 - December 2011	Preparation of a guide on undertaking labour supply and wage rate studies for public works programmes.
39.		Various short assignments including: (a) feasibility study for a polypropylene plant in Malawi; (b) economic feasibility of a plantain food products industry in Nigeria, and (c) advising a UK firm on the economics of UK's membership of the EU.

Official Reports

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