

CURRICULUM VITAE

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E. T. LAING

QUALIFICATIONS : M.A. in PHILOSOPHY, POLITICS AND ECONOMICS,
HERTFORD COLLEGE, OXFORD UNIVERSITY

Year of birth : 1943

CAREER HISTORY

1977 to present	Independent Maritime Transport Economist
1973 to 1977	Marine Transport Centre, Liverpool University, Research Fellow
1968 to 1973	Economist Intelligence Unit, London, Consultant
1964 to 1968	British Petroleum, Economist in Pricing Division

SUMMARY OF EXPERIENCE

E T Laing has worked for over 40 years as a maritime transport economist. He has been independent for the last 35 years; and has worked in about 70 countries. The projects on which he has worked have been for private firms, banks, government departments, international agencies (including the World Bank, EBRD, Asian Development Bank, IFC, European Commission, Overseas Development Administration/DFID, US AID and Danida), local government organisations and port trusts. His particular areas of specialisation include economic evaluation, institutional reform, privatisation, traffic forecasting, regulatory policy, financial analysis, concessions, container shipping, business planning, pricing and shipping and port operations.

MAIN PROJECTS AS AN INDEPENDENT ECONOMIST

- World Bank Staff Consultant on Governance of Latvian ports (2013)
- World Bank Staff Consultant on Port Requirements in Indonesia (2013)
- World Bank Staff consultant for Review of Funding Requirements for Ports and Inland Waterways sectors in Bangladesh (2013)
- World Bank/IFC Staff Consultant on Port Costs and Efficiency in Grenada (2013).
- World bank Staff Consultant on Karachi Port Development (2013)
- Study of Traffic Potential at a New Container Port in Scotland, for Scottish Enterprise, with Fisher Associates (2013)
- Assistance with bid for a Container Port on the US East Coast, with GHK (2013)
- Traffic forecast for Sabah Ports, with Royal Haskoning (2013)
- Feasibility Study for a Container Port in Indonesia, with BMT, Hong Kong (2013)
- Review of World Practice in Port Regulation for Ministry of Transport, South Africa, with DNA Economics (2012)
- Due Diligence reports on Proposed Bid for Acquisition of Container Terminals, for a Japanese Investor, with BMT (2012)
- Economic evaluation of a Channel Deepening Project at the port of Mesaieed, Qatar, with Wallingford HR (2012)
- Valuation of a Potash Terminal at the Port of Ventspils, Latvia, (2012)
- Economist on Feasibility Study for a Port at Mtwara, Tanzania, for TPA, with URS/ Scott Wilson (2012)
- Review of Rail Traffic forecasts for the Government of Oman, with IJK Associates (2012)
- Port Tariff Benchmarking Study for Transnet to Assist with Discussion with the Regulator , South Africa, with Frontier Economics (2011-12)
- World Bank staff consultant for ports and shipping regulation, efficiency and costs in Pakistan (2008-2011)
- Economist on Feasibility Study for a Port at Tanga, Tanzania, for TPA with URS/ Scott Wilson (2011)
- Business Plan for an Indonesian Container Concession, with DWA (2011)
- Feasibility Study for a Container Terminal at Tuxpan, Mexico, with STG (2011)
- Feasibility for a new port and SEZ at Kakinada, India, with GHK (2011)
- Valuation of a Ukrainian port project for London law firm, with GHK (2011).
- Financial model for the ports of Kuwait, with Stamford Research Group (2011)
- Review of Container Terminal Investment Plans for a Hong Kong International Terminal Operator, with GHK (2011)
- Valuation of a Latvian Coal Terminal with GHK (2011).
- Shipping costs for calculations new minerals mine, Russia, with WYG International (2010-11)
- Review of port traffic trends for PD Ports, UK, with GHK (2010-11)
- Review of prospects for offshore oil and gas support traffic at Teesport, UK, with GHK (2010)
- Advice to Clyde &Co LLP, London, in a legal dispute over a shipping line container lease (2010)
- Pricing policy for Indian LNG terminal, with DWA (2010)
- Indonesian Port Master Plan, with David Wignall and Associates (2010)
- Economic and financial evaluation of a new port in Montserrat, with GHK, for UK government (DFID) (2010)
- Economic evaluation of the consequences of a broken Container Terminal Concession Contract for compensation claim, for private Belgian client (2009-10)
- Financial Evaluation of the Breakwater Extension project at the port of Constantza, Romania, for the European Investment Bank (EIB), with Arup (2009)
- Risk analysis for Department of Transport's maritime regulatory work, Abu Dhabi, with Deloitte (2009)

- Market study for the Port of Sunderland, UK, with Fisher Associates (2009)
- Tariff Review for Port Louis Cargo Handling Company, Mauritius, with Fisher Associates and KPMG (2009)
- Mombasa Port Master Plan, for Kenya Ports Authority, with Mwaniki Associates (2009)
- Feasibility Study for a New Port in Nigeria, with Niras, Denmark (2009)
- Review of prospects for local shipbuilding to serve the new oilfields in Kazakhstan, for Shell, with Scott Wilson (2009)
- Market Assessment for Northern Gateway Container Terminal, UK, with GHK (2008-9)
- Assessment of the Justification for and Regulation of State Aid for Ports in the EU, for the European Commission, with GHK (2008)
- Port Traffic Forecasts for Teesport Master Planning Study, UK, with Fisher Associates (2008)
- Analysis of Business Plan for Teesport, UK, for Babcock and Brown (2008)
- Review of Business Plan for Kingston Container Terminal, Jamaica, with GHK (2008)
- Post Audit of the loan for Colombo' first privatised container concession loan, for the Asian Development Bank (2008)
- Felixstowe Port Land Requirement study, UK, with GHK (2008)
- Market Prospects for a new Container Terminal in Southern India for bidder for a concession, with Haskoning (2008)
- Review of plans for a Deep Sea Container Terminal at Teesport, UK, with GHK (2008)
- Evaluation of new container port at Bristol, UK, with Roger Tym and Partners, for Regional Development Authority (2007-8).
- Economist on Review of Breakwater Extension Proposal at the port of Constantza, Romania, for the European Investment Bank (EIB), with Arup (2007)
- Port Tariff and Regulatory Strategy study for the National Ports Authority of South Africa, with Frontier Economics (2007)
- Feasibility study for a container barge terminal on the Thames, London, with GHK (2007)
- Economist covering traffic, economic evaluation and institutional reform on Port Masterplan for the port of Aktau, Kazakhstan, for EU with Scott Wilson (2007)
- Financial Analyst on Colombo Port container terminal concession evaluation, with Scott Wilson (2007)
- Container traffic forecasts for Hong Kong government, with GHK (2006-7)
- Container concession documents and assistance with evaluation for a New Container Port, for Karachi Port Trust, Pakistan, with Royal Haskoning (2006-7)
- Economic Evaluation of proposed investments and review of concessions at the port of Durres, Albania, for European Bank for Reconstruction and Development (EBRD) (2006-7)
- Economist on Feasibility Study for Rebuilding of Bulk Berths at Karachi Port, with Scott Wilson (2006-7)
- Evaluation of major new North American container port for international terminal operator, with GHK (2006)
- Yukon/Alaska container port feasibility study, for a Canadian railway, with GHK (2006)
- World Bank staff consultant on shipping and ports aspects of Pakistan transport loan (2006)
- Due Diligence Study for a New Container Terminal in Saigon, Vietnam, for DPW/P&O Ports, with GHK (2006)
- Financial analyst for planning of new container port at Colombo, Sri Lanka, with Scott Wilson (2006)
- Traffic and revenue forecasts for prospective private purchaser of a port in Georgia (2006)
- Port and shipping traffic forecasts for Port of Luanda, Angola, with Scott Wilson, (2006)
- Traffic forecast for a concession for a private coal terminal in Indonesia, with Wilbur Smith Associates (2006)
- Ports and shipping specialist on National Transport Policy project for Government of Turks and Caicos Islands, West Indies (2005)
- Review of port reforms and privatisation in Nigeria for the World Bank (2005)
- World Bank Staff Consultant on the tariff, financial and operational aspects of the ports for a

- programme for the modernisation of the North-South Corridor, Pakistan (2005)
- World Bank Staff Consultant, Review of Indian Shipping Services (2005)
- Economist on Assessment of Traffic and Revenue Prospects for a New Private Container Terminal in Northern Canada, with GHK (2005)
- Review of Investment Needs, Business Plans and Options for Private and Public Sector Financing for Ports of Ploce, Zadar and Sibenik, Croatia, for the European Bank for Reconstruction and Development (EBRD) (2005)
- World Bank Staff Consultant on Shipping and Port Competitiveness Review, including Need for Further Privatisation, Pakistan (2005)
- Economist on Assessment of Prospects for a New Private Container Port in Turkey, with Scott Wilson (2005)
- Review of Kenyan Ports Master Plan for the World Bank (2005)
- Transport Advisor (sea, air and inland) for US-UAE Free Trade Agreement negotiations, for UAE Ministry of Finance, with Maxwell Stamp (2005)
- World Bank Staff Consultant on Review of Port Efficiency and Need for Institutional Reform/Privatisation at the Port of Karachi, Pakistan (2004)
- Maritime Economist on Thames Gateway Study for Eastern England Development Authority, UK, with GHK (2004)
- Key Performance Indicators for South African Ports Investment Program for Transnet, with Adam Smith Institute (2004)
- Economist on Port of Workington Development Study for Cumbria County Council, UK (2004)
- World Bank Staff Consultant on Port Project Identification mission, Bangladesh (2004)
- Review of South African Ports Investment Program for Transnet, with Adam Smith Institute (2004)
- Due diligence review for the IFC/World Bank for a new private container port in North West India, with PCI (2004)
- Freetown Port Development Study, Sierra Leone, with Niras, Denmark, for World Bank (2004)
- World Bank Staff Consultant, Port Privatisation and Reform in Tamil Nadu Economic Review, India (2003)
- Economist on Colombo Port Efficiency and Infrastructure Expansion Project, with Scott Wilson, for ADB and Sri Lanka Port Authority (2003)
- Port Specialist on Support for Concessioning of Port Terminals in South Africa, with Adam Smith Institute, for DFID (2003)
- Review of the Economic Role of the Port of Bristol, UK, for the South West Regional Development Authority and the Port of Bristol (2003)
- Due Diligence report for IFC/World Bank loan to Sokhna Port, Egypt, with Scott Wilson, (2003)
- Economist on Bahrain Port Development Study, with Posford Duvivier (2003)
- Maritime Regulatory Economist on Infrastructure Regulatory Framework in Kenya, with Adam Smith Institute, for World Bank/Government of Kenya (2002-3)
- Hong Kong Port Strategy Study, for Hong Kong government, with GHK (2002)
- Review of Market Prospects for a new Container Terminal Concession in Nhava Sheva for international terminal operator (2002)
- Review of Future Prospects for the Port of Toronto, Canada, for Toronto City Council, with GHK (2002)
- Due Diligence report for EBRD loan to Klaipeda State Seaport Authority, Lithuania, with Pannel, Kerr Foster (2002)
- Financial evaluation of a new Container Port at Djibouti, with MDST (2002)
- Impact of Infrastructure Development of the Port of Hong Kong, for the Hong Kong Port and Maritime Authority, with GHK (2002)
- Maritime Economist on TRACECA Unified Policy on Transit Fees and Tariffs, for TACIS, Azerbaijan, with Scott Wilson (2002)

- Economist on Ruwais Port Development Study, Qatar, with MDST/Halcrow (2002)
- Review of Management/Institutional/Regulatory Practices in Ports in Other Countries for the Netherlands Treasury, to assist in policy on public-private partnerships for major new developments at Port of Rotterdam, with GHK (2001)
- Review of the Economic Case for a New Container Port at Dibden Bay, Southampton, UK with Maxwell Stamp, for Southampton City Council (2001)
- Market Appraisal for Containers at the port of Tallinn, Estonia, with Port of Liverpool. (2001)
- Economist on Ajman Port Development Study, UAE, with MDST/Halcrow (2001)
- Sabah port traffic forecasts for port privatisation programme, Malaysia, with Posford/DeloitteTouche (2001)
- Asian Development Bank staff consultant on post audit of two port projects in India (2001)
- Port and Regional Development Study, Inhambane, Mozambique, with Scott Wilson (2001)
- Analysis of East Mediterranean Shipping for Gaza Development Study, Israel, with Louis Berger, for USAID (2001)
- Maritime Economist on Java Arterial Road Study, Indonesia, for World Bank, with Carl Bro (2001)
- Study of the Impact of Water and Energy Projects, for the Operations Evaluation Department of the Asian Development Bank (2001)
- Review of Funding Options for New Container Terminal, for Port of Cork, Ireland, with Posford Duvivier (2000)
- Hong Kong container port traffic forecasts, for the Hong Kong Port Development Board, with GHK (2000)
- Market and Tariff Prospects for a Private Purchase of a Container Terminal in Rio de Janeiro, for international terminal operator, with MDS (2000)
- Privatisation Strategy for Lake Ferries, Presidential Parastatal Sector Reform Commission, Tanzania (2000)
- Study of Opportunities for Bulk Cargo Terminals in Hong Kong, for the Hong Kong Port Development Board, with GHK (2000)
- Review of Economics of Dredging for Kingston Container Terminal, Jamaica, with Mott MacDonald (2000)
- Evaluation of Market and Tariff Prospects for a private container port in southern India, for the Port of Liverpool (2000)
- Evaluation of Market Prospects for a private container port in India, for Mott MacDonald (2000)
- Economist on Philippine Port Development Study. Traffic forecasts, economic evaluation and financial evaluation for five ports for Japanese OECF funding assistance, for Pacicon (2000)
- Evaluation of Market Prospects for a private bulk port in India, with the Port of Liverpool (1999)
- Review of Market Prospects for Privatisation of a Lithuanian Shipping Line, for Phare, European Union, with Maxwell Stamp (1999)
- Evaluation of Prospects for a Private Container Port Terminal in Thailand, for ICTSI, with MDS Transmodal (1999)
- Evaluation of Market Prospects for a private port in Lebanon to serve transit traffic, with MDS Transmodal (1999)
- Analysis of Economics of Port Development and Shipping Options for Belize Sugar Industries, with Posford Duvivier (1999)
- Evaluation of Market Prospects for a private port in India, with the Port of Liverpool (1999)
- Staff Consultant, Asian Development Bank, Evaluation of assistance to ports in Indonesia (1999)
- Review of Container Port Traffic and Financial Forecasts for new private container terminal in Bangladesh, for Interbeton, Netherlands, (1999)
- Shipping and Ports Specialist, Philippine Transport Infrastructure and Capacity Development Project, for Asian Development Bank/NEDA, with Halcrow Fox (1998-9)

- Review of traffic forecasts for port masterplan for Asia Terminals Ltd, Manila, with PCI (1999)
- Due Diligence Study for Hong Kong Bank financing new private P&O container terminal at port of Nhava Sheva, India, with GHK (1998)
- Hong Kong container port back up study, for the Hong Kong Port Development Board, with GHK (1998)
- Shipping Economist on pre-feasibility study for Norwegian Export Terminal, with Posford Duvivier (1998)
- Financial Analyst on Study of Private Port Development at Alexandria, Egypt, with MDS, Halcrow (1998)
- Economist on Big Creek Port development Study, Belize, for EU, with Posford Duvivier (1998)
- Traffic Forecast and Marketing Plan for Port of Mina Qaboos, Oman, with Port of Liverpool (1998)
- Oil Storage Feasibility Study, Port of Fujairah, UAE, with Mott MacDonald (1998)
- Hong Kong port traffic forecasts, for the Hong Kong Port Development Board, with GHK (1997)
- Financial Evaluation of Cost Recovery Scheme for Breakwater for Petroleum Berths at Aktau Port, Kazakhstan, with Maxwell Stamp/ Mouchel, for EBRD (1997)
- Economist on Port Said Container Port and EPZ Development Study, for Egyptian Government with MDS and Halcrow (1997)
- Economist on Bangladesh National Port Study, for World Bank, with Port of Liverpool and Mott MacDonald (1997-8)
- Financial evaluation and traffic forecasts for a new industrial port in Abu Dhabi, with Bechtel/Posford Duvivier and MDS (1997)
- Economist on Port Raysut Development Study, Salalah, Oman, with Posford Duvivier (1997)
- Traffic Forecasts for Private Port in China, with Babbie BMT (1997)
- Financial analysis of Private Port Development in Thailand, with Tecnecon/Hydr (1997)
- Economist on Xiamen Port Development Study, with Hydr/Tecnecon, for Asian Development Bank (1997)
- Port Tariff study for the Bintulu Port Authority, Malaysia, with Tecnecon (1997)
- Traffic forecasts for new port in West Malaysia, for private developers, with Posford Duvivier (1997)
- Traffic review for private port development in India, with Scott Wilson (1997)
- Review of Turkmenbashi Port Development Plan, Turkmenistan, by Louis Berger, for EBRD (1996)
- Economist and financial analyst on Parnu Port Development Study, Estonia, with Cowi/Danport, for EC (1996)
- Privatisation specialist on TACIS assistance to the Port of Novorossisk, Russia, with SWK (1996)
- Financial Analysis of Indonesian Coal Mine and Transport Project, with Posford Duvivier, for the prospective investor (1996)
- Financial Analysis on Sohar Port Development Study, Oman, with Hydr/Tecnecon (1996)
- Economic Analysis on Kelang Port Channel Development Study, Malaysia, with Posford Duvivier (1996)
- Economist and financial analyst on Feasibility Study for new private container port, Demport, Turkey, with Posford Duvivier and Port of Felixstowe (1996)
- Economist on Banjul Port Dredging Study, The Gambia, for Gambia Port Authority and World Bank, with Portconsult (1996)
- Maritime Economist on Philippine National Transport Strategy Study, for ADB with Halcrow Fox (1996)
- Maritime Economist on Bahrain Port Development Study, with Posford Duvivier (1996)
- Port traffic forecast review for Sapangar Bay Container Port Development, Malaysia, with Scott, Wilson Kirkpatrick (1996).
- Maritime Transport Economist on Varna Power Plant Feasibility Study, Bulgaria, with Posford

- Duvivier (1996)
- Financial model for a Industrial Port and Plant in Asia, with Arthur Andersen and Posford Duvivier (1996)
- Traffic Forecasts for Privatisation of Sabah Ports, for private transport company, Malaysia, with Posford Duvivier (1996)
- Evaluation of investment programme for the Port of Larne, Northern Ireland, for European Regional Development Fund assistance (1996)
- Evaluation of investment programme for the Port of Londonderry, Northern Ireland, for European Regional Development Fund assistance, with ERM (1995)
- Ports and Shipping Privatisation and Deregulation Study, Angola, with Scott Wilson Kirkpatrick, for World Bank (1996)
- Economist, Financial Analyst and Institutional / Privatisation Specialist on Yangtse River Ports Feasibility Study, with Comar, for UNDP (1995)
- Asian Development Bank Fact Finding Mission on Sea and Land Transport in Pacific Islands of Micronesia (1995)
- Economist, Financial and Institutional / Privatisation Specialist on Massawa Port Development Study, Eritrea, with Carl Bro, for World Bank (1995)
- Traffic Forecasts for Corporatisation of Sabah Ports, for Ports Authority, Malaysia, with Posford Duvivier (1995)
- Economist on Study for a New Private Port in Hainan, China, for Port of Liverpool, Rolls Royce and BMT (1995)
- Economist on Sierra Leone Port Rehabilitation Study, for World Bank, with Tecnecon and Port Consult (1995)
- Ports and Shipping Privatisation and Deregulation Study, Mozambique, with Scott Wilson Kirkpatrick, for World Bank (1993-95)
- Investigation of Costs and Privatisation Methods at the Port of Ventspils Chemicals Terminal, Latvia, for Russian trading company, with Coopers & Lybrand (1994)
- Port Pricing Specialist on Institutional Strengthening Study for Port Louis, Mauritius, for World Bank, with Tecnecon (1994)
- Comparison of the Ports of Singapore and Malaysia, for the Malaysian government, with MDS (1994)
- Port and Inland Waterway economist on China Transport Sector Review, for Asian Development Bank (1994)
- Review of Port Development Plans, Liverpool, UK, for Merseyside Development Corporation, with York Consulting (1994)
- Economist on Varna Port Development Study, Bulgaria, with Posford Duvivier, for EBRD, (1993-94)
- Indian Ports and Coastal Shipping Privatisation Project, for Asian Development Bank, with Tecnecon Far East (1993)
- Development Programme for the Port of Navipe, Greece, examining prospects for private port development, for the Greek Development Bank, with Maxwell Stamp (1993)
- Evaluation of Warrenpoint Harbour Authority investment programme for European Regional Development Fund assistance, for WHA, Northern Ireland, with Tecnecon (1993)
- Financial Analyst on Oil Terminal Expansion Project, for Dubai Ports Authority, with Scott Wilson Kirkpatrick (1993)
- Financial Analyst on Study of Prospects for a private Deep Water Port in Belize, with Posford Duvivier (1993)
- Review of Market Prospects for Management Buyout of a UK Port, for Port Operator and Financing Banks, with Maxwell Stamp (1993)
- A Study of Bristol Channel Port Traffic and Capacity for Bristol Port Company, UK, with Tecnecon (1992-93)
- Port Traffic Forecasts and Investment Evaluation for Port of Kuching, Malaysia, with Sir Bruce White (1992)

- Analysis of Port Requirements for Fertiliser Industry in Sabah, Malaysia, for Sabah Ports Authority, with Posford Duvivier (1992)
- Wirral Waterfront Study (Review of Mersey Docks and Harbour Company expansion plans), for Merseyside Development Corporation, UK, with York Consulting (1992)
- Economist on Port Development Study for Mina Saqr, UAE, with Maxwell Stamp (1992)
- Financial Analyst on Build, Operate and Transfer scheme for privatising grain handling at the Port of Manila, Philippines, for US AID, with Wilbur Smith (1992)
- Economist/Financial analyst on Port Pricing for Benguela Corridor Development Study, for World Bank, with Transmark and Posford Duvivier (1992)
- Economist/Financial Analyst on study of Privatisation Prospects for Dry Bulk Cargo Handling at Manila, Philippines, for US AID, with Wilbur Smith (1992)
- Economist on Sabah Ports Masterplan, East Malaysia, with Posford Duvivier (1991-2)
- Appraisal of UK Port Market Prospects for Merchant Bank financing the privatisation of the Port of Bristol, UK, with Maxwell Stamp (1991)
- Economist on Prospects for Container Transshipment, Bunkering and a Free Trade Zone at Aden, with Economic Studies Group, for the UK Overseas Development Administration (1991)
- Hospital Location Study for Central Nottinghamshire Health Authority, UK, with CES Ltd (1991)
- Economist on Dar es Salaam Port Channel Dredging Study, Tanzania, with Scott Berlin (1991)
- Economist on Oil Terminal Location Study, Jizan, Saudi Arabia, with Acer/Sir Bruce White (1991)
- Port Feasibility Study for Bluefields, Nicaragua, with Ramboll and Hanneman, for DANIDA (1991)
- Study of Regulation of Europe-Latin American Shipping, with Economic Studies Group, for the European Commission (1990-1)
- Port Traffic Forecasts for Turks and Caicos Islands, West Indies, with Posford Duvivier, for ODA (1990)
- Review of Japanese International Cooperation Agency port masterplan study for Government of Oman, with Halcrow (1990)
- Economist on Miri Port Study, Malaysia, with Sir Bruce White Wolfe Barry and Partners (1990)
- Study of Shipping Line Operations for Isles of Scilly Steamship Company, UK, with Tecnecon (1990)
- Economist on Market and Land Use Study for Port of Blyth, UK, with Rendel, Palmer and Tritton (1990)
- Cargo and Shipping Traffic Forecasts for Port of Tanjung Priok, Jakarta, with Peter Fraenkel/BMT (1990)
- Economist on Service Port Study at Beira, Mozambique for DANIDA, with Butler Associates/Pannell Kerr Forster (1990)
- Transport Advisor on Kent/Nord Pas de Calais Development Programme, covering Channel Tunnel, road, rail and sea transport, with GMA Planning, for EEC (1989)
- Economist on study of Tug Requirements at Port of Maputo, Mozambique, with Tecnecon/ Port of Felixstowe, for UK ODA (1989)
- Economic Strategies for Transport, Health, Hotels and Tourism, for London Borough of Lambeth, with CES Ltd (1989)
- Financial analyses of port projects, UK East Coast (1989)
- Economist on Indian Ports and Shipping Sector Study, with Tecnecon/CES, India, for Asian Development Bank (1988-89)
- Review of EEC's 1992 legislation on the UK transport sector, with Tecnecon, for UK port authorities (1988)
- Economist on a study of EEC Shipping and Shipbuilding Regulation with Tecnecon and Moore Stevens, for EEC (1988)

- Economist on the Kenya Port Tariff Study, with Economic Studies Group, for the UK ODA (1988)
- Economist on Big Creek Port Studies, Belize, with Posford Duvivier, for UK Overseas Development Administration (1987-88)
- Economist on Asian Development Bank fact-finding mission to Santo Port, Vanuatu, Pacific (1987)
- Review of Pakistan Transport Sector, with Asian Development Bank (1987)
- Transport Economist on Malaysian National Ports Study, with Tecnecon and PRC, funded by World Bank (1987)
- Maritime Transport Advisor at the Ministry of Transport and Communications of the Philippines, with Renardet SA, on World Bank financed studies of deregulation in the shipping industry, and an investment program for shipping (1985-86)
- Economist on Manila Port Masterplan Review with Renardet SA, funded by the World Bank (1986)
- Economist on the Third Incheon Port Development Study for the Korea Maritime and Port Authority, with Trans-Asia Engineering, funded by the Asian Development Bank (1984-85)
- Transport Advisor on intermodal study of sea and air transport for the Isles of Scilly, UK, with Graham Moss Associates, for the EEC (1984)
- Author of 'Containers, Conferences and Competition' for the Economist Intelligence Unit, London (1984)
- Analysis of Container Berth Capacities for Port of Felixstowe, with Maxwell Stamp (1983)
- Transport economist on a series of studies on the development of river berths on the Thames, for the Greater London Council, with Roger Tym and Partners (1983)
- Author of 'The Economics of Smoking and Health' for the UK Health Education Council (1983)
- Maritime Advisor on three World Bank financed transport studies for the Philippine Government, with Renardet SA:
 - ❑ National Transport Planning Project covering investment and regulatory policy for all transport modes (1980-82)
 - ❑ Port Feasibility and Design Projects for the four ports of Cagayan de Oro, Iloilo, Zamboanga and Cebu (1978-80)
 - ❑ National Transport Systems Study, an intermodal national transport study with emphasis on training (1977-78)

RESEARCH FELLOW AT MARINE TRANSPORT CENTRE, LIVERPOOL UNIVERSITY (1973-77)

Worked mainly on:

- Economic effects of liner conferences. A study of the discriminatory pricing systems employed by most of the world's shipping lines.
- Economics of deep sea general cargo shipping. This study, undertaken for the UK National Ports Council, compared the costs and other advantages of container, LASH, ro-ro and conventional shipping methods.
- Review of appraisal criteria for port investments.

The results of the above work were documented in internal papers, in some of the articles listed later in this CV and in journals. Other studies commissioned by outside organisations included:

- ❑ UK National Ports Council. Forecasts of shipping methods, to assist the NPC with berth requirement forecasts
- ❑ UK Timber Research and Development Association, on optimal shipping systems for timber imports (1975)
- ❑ EASAMS, on the economics of shipping systems for an Algerian planning study

CONSULTANT, ECONOMIST INTELLIGENCE UNIT (1968-73)

- Korean Ports Study for the World Bank and Korean Ministry of Construction (1971-72)
- Thailand Containerisation Study, for the UK Overseas Development Administration (1972)
- Karachi Port Development Study, for the World Bank (1971)
- Port Feasibility Study, Chiapas, Mexico for the Mexican Maritime Affairs Ministry (1970)
- Prospects for a UK Maritime Industrial Development Area, for Kent County Council (1969)
- Potential for roll-on roll-off shipping at Lisbon (1969)

PUBLICATIONS

- Do Ports Need Economic Regulation? The Utilities Journal, September 2003.
- Ports and Shipping Problems in Developing Countries, for Commonwealth Secretariat Investment and Trade Almanac, 1998
- A note on Optimal Waiting to Service Time Ratios in Large Ports, with Gunther Hecker, Maritime Policy and Management, Jan 1989
- Containers, Conferences and Competition: Problems and Instability in Shipping. Economist Intelligence Unit: Quarterly Economic Review Special No 170, 1984
- Shipping Freight Rates in Developing Countries; Who Ultimately Pays? Journal of Transport Economics and Policy, 1977
- The Distribution of Benefits from Port Investments. Maritime Studies and Management, 1977
- Containers and their Competitors - the Economics of Deep-Sea General Cargo Shipping in the 1970's. Marine Transport Centre, University of Liverpool, 1975
- Rationality of Conference Pricing and Output Policies, Maritime Studies and Management, Oct 1975, January 1976
- Research and Redesigning of Freight Rates, International Symposium on "The Future of Liner Shipping", Bremen 1975
- The Economics of Deep Sea General Cargo Shipping in Developed and Developing Countries, PTRC Conference, 1975
- Containers , Pallets and LASH. The Economist Intelligence Unit, Quarterly Economic Review Special No 13, 1973