

## SCL – economics environment development

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| Name:         | Hilary Sunman   |
| Profession    | Environmental economist   |
| Date of Birth | 1947  |
| Education     | BA (Hons) Economics and Sociology,<br>University of East Anglia 1969<br>MA (with distinction) Development Economics<br>University of East Anglia 1975 |
| Languages     | French (good), Spanish (basic)  |

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### KEY QUALIFICATIONS

Hilary Sunman specialises in strategic economic and policy analysis for environmental management and has been working as an environmental economist for the past fifteen years. She has worked extensively on environmental plans and programmes, with a focus on assessing environmental damage, the costs and indicators for assessing the benefits of environmental policies. Typical recent projects include:

- Consultant to Environment Agency UK, preparing estimates of high level benefits anticipated from 4<sup>th</sup> water company Asset Management Programme (2002) (ongoing)
- Project coordinator for GWP ToolBox – a knowledge information system for Integrated Water Resources Management; chief editor for case studies of effective water resources management (2001-2)
- Secondment as Business Economist to UK Environment Agency, 2001
- Preparation of paper on financing water resource development in Latin America for InterAmerican Development Bank (2002)
- Joint author of the GWP Framework for Action, presented at the 2<sup>nd</sup> World Water Forum in The Hague, March 2000
- Adviser to the World Water Council and Global Water Partnership on financing, pricing, privatisation and other policies for water resource management (2000)
- Analysis of financial and donor flows for dam construction and international financial resources, within work of the World Commission on Dams. Report published 2001

- Preparation of National Environmental Action plans in Lebanon, Syria and Mauritius, where development of economic and environmental indicators is an important tool for plan management; training in NEAP implementation, Belarus
- Economic appraisal of environmental policies (eg solid waste management in Hong Kong, air quality in China)

## **Work in UK and Europe**

*Economic instruments for biodiversity – OECD 1995*

*Monetary Valuation of Benefits of Biodiversity in UK forests.. (1993).*

*Benefits of Low Flows Alleviation - Seven Rivers in South West England National Rivers Authority (1995-6).*

*Cost benefit analysis of low flow alleviation – River Darent National Rivers Authority (Southern) UK (1992-1993).*

*Estimation of benefits of control of acid rain - Report published 1991.*

*Market mechanisms for the water environment for the UK Government, 1992*

*Harmonisation with EU – developing methodology for estimating costs 1998*

*Implementation of Biodiversity Convention - a research study for the EU (DGXI*

*Evaluation of the impacts and policy responses to global warming - for the EC 1992.*

*Appraisal of Environmental Projects - European Investment Bank :industrial effluent plant in Izmit, Turkey; incineration (waste to energy) plant in France; potable water supply in Ouagadougou, Burkina Faso. (1996); urban water supply in Haiti 1997).*

*Environmental Impacts of Possible Changes in the Ownership of UK Forests – 1993*

*The application of economic instruments for recycling of waste - for UK Government. (1992).*

*The application of financial instruments to countryside policies - for the Countryside Commission (1992).*

*Guidelines for the Application of Economic Instruments to The Industry Sector OECD 1991.*

*Comparison of Environmental Policy Planning in Industrialised Countries for the Dutch Government (1990).*

*Market Mechanisms: Charging and Subsidies for the Department of Environment. 1990.*

*Costs and Benefits of Controlling Emissions of VOCs – UK government (1995 - 96)*

*Estimation of the costs of pollution abatement in the UK -*, (1991). Report published 1991.

*Economic Evaluation of waste treatment technologies,*

*Economic analysis of use of waste for fuel*, for ETSU, Department of Energy, 1989.

### **Summary of other project experience**

*Global Water Partnership – programme manager* Responsible for developing 'toolbox' of water policy instruments and actions for IWRM, consciousness raising and policy formulation programmes of the Global Water Partnership. Main activities include building portfolio of practical examples of IWRM and application of economics; briefing paper on financial flows in the water sector. Was co-author of the GWP Framework for Action for Water Security presented at the 2<sup>nd</sup> World Water Forum at The Hague in 2000. Funded by DFID, 1999 ongoing.

*Appraisal of sector support aid programme, Egypt – Danida 2000*

*Project preparation, Syria* - based on recommendations of the NEAP for Syria prepared in 1997-98

*National Environment Action Plan – Mauritius 2000*

*Energy sector, Turkmenistan 2000*

*National Environment Action Plan in Syria 1998*

*Upper Volga Water Resource Management; 2000*

*Environmental Management Strategy for the Lebanon 1999*

*Water Resource Management for River Gomti, India - 1999*

*Evaluation of Water Quality Standards – for DFID 1998*

*Market Based Instruments in China – air pollution charges 1998*

*Hong Kong Waste Reduction Study 1997*

*Economic instruments for environmental management in Cyprus – 1992*

*Charging for water resource management, Sao Paulo - (1992).*

*Trade Effluent Charging in Hong Kong - 1996-7.*

*Policies for Water Pollution Control in Egypt -, 1996*

*Economic Evaluation of an Air Pollution Control Strategy for Chongqing, China - (1994-1996).*

*Estimation of Benefits of Pollution Reduction* also part of the following studies:

- Chongqing Air Pollution Control Strategy
- Assessment of impacts of climate change in Europe
- VOCs - benefits from meeting EU and UK emission reduction targets

## **TRAINING AND CAPACITY BUILDING**

*Training in the practical application of environmental economics –Azerbaijan.* World Bank, 2000

*Training in investment mechanisms for air pollution control –UN-DESA in China -* 1999

*Training in energy and utilities –Logica Plc.* 1998,  
*Training in economics and environmental management -*, for Syrian government and World Bank. (1997)

*Training in Environmental Economics –* China published in early 1999.

*Training in Environmental Economics* in Chile, as part of a major Environmental Management Programme funded by the ODA. (1995 - 96)

## **PUBLICATIONS AND CONFERENCE PAPERS**

*Trends in the Financing of Water and Energy Resources Projects, Thematic review* Co author with Per Ljung and Chris Head. Published World Commission on Dams 2001

*Environmental Economics – a briefing paper for the Electricity Association of the UK* published 2001

*Towards Water Security – A Framework for Action*, for GWP 2000 co author with Alan Hall, Prod Tony Allan, Nigel Walmesly and Frank van Steenberg

Sunman, Munasinghe and Zhang Shi Qiu (1999) *Economics Environmental and Industry in China* China Council for International Cooperation in Environment and development (CCICED) 2000

*Practical Economics for Environmental Management; The Application of Market Based Instruments* published 1999, volume 4 in series published in China through DFID

Barrowcliffe and Sunman *An Air Pollution Control Strategy for Chongqing*, paper European Association of Environmental and Resource Economists, 1999

*The Application of Charging Schemes for the Management of Water Pollution;* Natural Resources Forum, Butterworth Heinemann Ltd, 1993

*The Valuation of Biodiversity in Temperate Forests in Proceedings of the XXI Union of Game Biologists (IUGB) , Vol 1, ed ID Thompson, 1993 (paper presented at the XXI Conference of Game Biologists, Halifax, Nova Scotia, 1992)*

*The Economics of Biodiversity Conference on Environmental Economics, IBC London 1992*

*A Modelling Approach to the Estimation of Pollution Abatement Costs, 2nd annual meeting of the European Association of Environmental and Resource Economists, Stockholm, 1991*

*Emission Charges in Practice, with Dr Clifford Russell, Dr Robin Bidwell, European Association of Environmental and Resource Economists, Venice, 1991*

*Science Park Series (1986): Science and Technology Parks in Belgium and the Netherlands, France and her Technopoles, West Germany - Innovation Centres and Science Parks, CSP Economic Publications Ltd, 1986*

*October 2002*