

Dr. ROBERT TINCH

rob.tinch@environmentalfutures.com

Dr. Rob Tinch has 13 years' experience in environmental and ecological economics, in government, private consultancy and academia. His current research and consultancy interests are based around methods of supporting decision-making and environmental policy formation under conditions of uncertainty, using a range of techniques. These include, in various combinations and in collaboration with other researchers: projecting outcomes via simulation modelling, scenario building, fuzzy expert systems, and social survey methods; and evaluating outcomes via environmental valuation, cost-benefit analysis, life-cycle assessment, multi-criteria assessment, and fuzzy goal sets.

Education

PhD in Environmental Economics and Environmental Management: "Resilience and Management of Stochastic Renewable Resource Systems", University of York, 1995-2001.

MSc (Distinction) in Environmental Economics, University College London, 1993-1994.

BA Hons (First Class) in Economics, University of York, 1989-1992.

French Level 4 (Distinction) post-A-Level, University of York Languages Unit, 1997.

Current Employment

Director, Environmental Futures Limited (from 2002). Current projects include:

- marine and land sand and gravel comparative assessment (with Resource Decisions and ettec)
- stakeholder integration in the framework 6 project RUBICODE (Rationalising Biodiversity Conservation in Dynamic Ecosystems) (with Median SCP);
- specific support action RAPIDO (Rural Areas – People – Innovative Development) (with Ecologic GmbH).
- working on proposals to FP7 and BiodivERsA calls

Recently completed projects include:

- developing a decision-support system for incorporating environmental values in flood risk appraisals (Environment Agency, with ettec);
- case study of ecosystem service valuation for "Policy Appraisal and the Environment" (Defra, with ettec)
- scoping a biodiversity policy for a major French multinational (with Median SCP)
- leading EFL team for "Developing Defra's Environmental Reporting Guidelines";
- research for RSPB on economics of managed realignment;
- leading EFL team on Defra project "Valuing our Natural Environment";
- leading Law and Policy task force for EUROWET (Integration of European Wetland Research in Sustainable Management of the Water Cycle);
- research for "Successful approaches to sustainable procurement" for Defra;
- research for SEEDA on waste market development;
- research on phases 2 and 3 of UK Foresight programme on Future Flooding;
- leading EFL and UEA team on the Powergen Energy Monitors 2003 and 2004.

Socio-economic expert, European Platform for Biodiversity Research Strategy (appointed by DG Research in 2002; on steering committee 2004 – 2006; now representing RUBICODE project).

Previous Employment

External examiner, Wye College, University of London (2003 - 2005).

Researcher (part time) in Socio-Economic Research Programme, Macaulay Institute, Aberdeen (2003-4).

Lecturer in Ecological and Environmental Economics in the School of Environmental Sciences, and **Senior Research Fellow** in the Centre for Social and Economic Research on the Global Environment, at the University of East Anglia (1998-2003).

Consultant, Economics for the Environment Consultancy Limited. Projects include: incorporating valuation techniques and values in road appraisal in Ireland; valuation of external costs of pesticide use; valuation of external costs of UK dredged material disposal; evaluation of economic instruments for UK application of the Second Sulphur Protocol; valuation of low flow levels in the River Ouse (April to September 1995 and various projects since)

Consultant, Department of Transport. Wrote book on environmental valuation techniques and current damage estimates for UK transport, published by HMSO in 1996 (October 1994 to March 1995).

Economic Assistant, Department of Transport. Worked on forecasting CO₂ emissions, on fuel duty strategy for meeting UK targets, and on Anglo-French proposal to ECMT for a tradable credits system for car fuel economy. (July to October 1994, April to October 1993.)

Publications

Tinch, R and Provins A (2007) Policy Appraisal and the Environment: Wareham Managed Realignment Case Study. Report to Defra.

Tinch, R and Tinch, D (2006) "Economics of Climate Change" *Developments in Economics* 22.

Tinch, R and Ledoux, L (2006) *Economics of Managed Realignment in the UK* Final Report to the RSPB / Coastal Futures project.

Powell, JC, Tinch, R, White, O and Peters, M (2006) *Successful approaches to sustainable procurement* Final report to Defra.

Ozdemiroglu, E, Tinch, R, Johns, H, Provins, A and Powell, JC (2006) *Valuing our Natural Environment* Final report to Defra.

Watkinson, A, Cornell, S and Tinch, R (2007) "Sustainability of flood management responses" Chapter 26 in Thorne, CR, Evans, EP and Penning-Rowell, EC *Future Flooding and Coastal Erosion Risks* Thomas Telford, London.

Rothman, DS, Eames, M, Dahlstrom, K, Thomson, K, Gelan, A, Schwarz, G, Gotts, N and Tinch, R (2005) Appraisal of Sustainable Rural Policy And Land Use (SURPLUS) Scoping Study, Final Report to Defra and HM Treasury, London UK.

Tinch, R, Ledoux, L, Mountford, O, and Sgouridis, F (2005) "Protected areas and water dependency" Ch. 5 in Maltby, E *et al* EUROWET, Integration of European Wetland research in sustainable management of the water cycle. Final Report: Technical Guidance.

Négrel, P, Schomburg, S, Ladouche, B, Weng, P, Blackwell, M, Tinch, R (2005) "Wetlands and the analysis of impacts and pressures" Ch. 6 in Maltby, E *et al* op. cit.

Blackwell, M, Tinch, R, Mountford, O, and Chen, H (2005) "Programme of measures" in Maltby, E. *et al* op. cit.

Uyarra MC, Cote IM, Gill JA, Tinch RRT, Viner D, and Watkinson AR (2005) "Island-specific preferences of tourists for environmental features: Implications of climate change for tourism-dependent states" *Environmental Conservation* 32 (1): 11-19

Tinch, R (2004) "Economics of Environmental Policy", *Developments in Economics* 20.

Tinch, R, Peters, M, Monahan, J, Metcalfe, P, and Diaz-Rainey, (2004) *Powergen Energy Monitor 2004* London: Powergen UK plc.

Beaumont, NJ and Tinch, R, (2004) "Abatement cost curves: a viable management tool for enabling the achievement of win-win waste reduction strategies?", *Journal of Environmental Management*, 71:3, 207-215.

Tinch, R, Peters, M, Diaz-Rainey, I, Monahan, J, Waddams, C and Tovey, NK (2003) *Powergen Energy Monitor 2003* London: Powergen UK plc.

Tinch, R (2003) "Managed re-alignment, inter tidal zones and off-shore fishery production" in Ledoux, L, "Wetland Valuation: State Of The Art And Opportunities For Further Development: Proceedings of a Workshop", CSERGE Working Paper PA 04-01.

Beaumont, NJ and Tinch, R (2003) "Goods And Services Related To Marine Benthic Environment." CSERGE Working Paper ECM 03-14.

Watkinson, A, Arnell, NW, Conlan, K, Coker, A, Gill, J, Ledoux, L and Tinch, R (2003) "Assessment of Future Environmental Impacts of Future Flood Risk: Package E" Report to UK Foresight.

Soto Montes de Oca, G, Bateman, IJ, Tinch, R and Moffatt, PG (2003) "Assessing the Willingness to Pay for Maintained and Improved Water Supplies in Mexico City." CSERGE Working Paper ECM 03-11.

Macleane, IMD, Tinch, R, Hassall, M and Boar, R (2003) "Towards optimal use of Tropical Wetland Resources: an economic valuation of goods derived from papyrus swamps in Southwest Uganda." CSERGE Working Paper ECM 03-10.

Macleane, IMD, Tinch, R, Hassall, M and Boar, R (2003) "Social and Economic Use of Wetland Resources: A case study from Lake Bunyonyi, Uganda. CSERGE working paper ECM 03-09.

Beaumont, NJ and Tinch, R (2003) "Cost-Effective Reduction of Copper Pollution in the Humber Estuary" CSERGE working paper ECM 03-04.

Tinch, R (2002) "Commercial Values of Urban Quality." Appendix C in TSU and David Simmonds Consultancy, "The Effects of Urban Quality Improvements on Business Performance: A Literature Review, Expert Panel and Modelling Study." Reference 922, TSU, University of Oxford

Powell, JC, Peters, M, Tinch, R, Turner, RK, Strobl, B, and White, O (2002) "The development of a sustainable and effective waste management policy for the UK" Final Report to International Forum of Collaboration Projects, Japanese Cabinet Office.

Allison, EH, Ellis, F, Mathieu, L, Musa, A, Mvula, PM, and Tinch, R (2002) "Sustainable Livelihood Strategies from fluctuating fishery resources in Malawi and Indonesia." Final Technical Report: DFID Fisheries Management Science Programme.

Tinch, R (2001) "Transport and Environment: Policy Directions for Europe" *European Environment* 11:3 pp151-162

Tinch, R (2001) "Economics, Ecology and Fisheries Management" in Turner, RK, Bateman, IJ and Adger, N (eds) *Economics of Coastal and Water Resources: Valuing Environmental Functions* Dordrecht: Kluwer

Berkhout, F., Hertin, J., Lorenzoni, I., Jordan, A., Turner, K., O'Riordan, T., Cobb, D., Ledoux, L., Tinch, R., Hulme, M., Palutikof, J. and Skea, J. (2001) "Presentation of UKCIP socio-economic scenarios for climate change impact assessment", in *Socio-economic scenarios for climate change impact assessment* UKCIP, Oxford.

Tinch, R (2000) "Assessing Extinction Risks: A novel approach using fuzzy logic" CSERGE Working Paper GEC 2000-20.

Batagoda, BMS, Turner, RK, Tinch, R and Brown, K (2000) "Towards Policy Relevant Ecosystem Services And Natural Capital Values: Rainforest Non-Timber Products" CSERGE Working Paper GEC 2000-06.

Peterson, G, Cunningham, S, Deutsch, L, Erickson, J, Quinlan, A, Raez-Luna, E, Tinch, R, Troell, M, Woodbury, P and Zens, S (2000) "The Risks and Benefits of Genetically Modified Crops: A Multidisciplinary Perspective", *Conservation Ecology* 4:1

Tinch, R (1999) "Marginal Cost Pricing: A Panacea for Transport Externalities?" CSERGE Working Paper PA 99-07.

Pearce, DW and Tinch, R (1998) "The True Price of Pesticides", in Vorley WT and Keeney D (eds) *Bugs in the System: Redesigning the pesticide industry for sustainable agriculture*, London: Earthscan

Mourato, S, Foster, V, Tinch, R, Ozdemiroglu, E and Pearce, DW (1998) "Incorporating External Impacts in Pest Management Choices", in Vorley and Keeney (eds) *op. cit.*

Peterson, G, de Leo, GA, Hellman, JJ, Janssen, MA, Kinzig, A, Malcolm, JR, O'Brien, KL, Pope, SE, Rothman, DS, Shevliakova, E, and Tinch, R (1998) "Uncertainty, Climate Change and Adaptive Management" *Conservation Ecology* 1:2 article 4.

Tinch, R (1996) Shadow Price Estimates for Transport Externalities, Report to the European Conference of Ministers of Transport (ECMT)

Tinch, R (1996), Valuation of Environmental Externalities of Transport, Report to the European Conference of Ministers of Transport (ECMT)

Tinch, R (1996) *The Valuation of Environmental Externalities* London: HMSO
