

SHORT CURRICULUM VITAE - PROFESSOR EDWARD MALTBY

Current Position (2005-)	Professor of Wetland Science, Water and Ecosystem Management & Director Institute for Sustainable Water, Integrated Management and Ecosystem Research University of Liverpool.
Previous positions (1994 -04)	Professor of Environmental and Physical Geography Department of Geography Royal Holloway University of London Director, Royal Holloway Institute for Environmental Research (RHIER) Director, Wetland Ecosystem Research Group (WERG).
(1974-94)	Lecturer; Senior Lecturer; Reader in Geography University of Exeter
Qualifications	PhD, Geography, University of Bristol, 1977 BSc (Hons) Geography (1st class), University of Sheffield, 1971

PROFILE

Over 40 years experience in scientific research and environmental project management, providing both technical and policy advice for Supragovernment, government and non-government bodies. These include the European Commission, UK Department of Environment, Food & Rural Affairs, House of Commons Select Committee on European legislation, the United States Federal Government, Belgian and Netherlands governments, the World Wide Fund for Nature, IUCN - The World Conservation Union, UNEP and the Biodiversity and Ramsar Conventions. Currently advisor to the Secretary of State for Environment on the UK National Ecosystem Assessment. Formally Chair IUCN Commission on Ecosystem Management and of the IUCN Wetlands and Water Programme.

EMPIRICAL RESEARCH ACHIEVEMENTS

- Early research on soil microbial and ecological changes resulting from drainage and land use alteration in Louisiana wetlands.
- Empirical evidence for the speed and nature of pedogenic change in wetland soils resulting from human activities published in Nature and other high impact journals.
- Long term investigations of the impacts of severe fire on moorland ecosystems published in J. Ecology and Bull. Ecol.
- Development and application of the cotton strip technique as a novel way of measuring decomposition in wetlands.
- Characterisation of Falkland Islands peat, contributing to development of the Ground Probing Radar now used extensively to locate buried non-metallic materials.
- Wetland biogeochemical investigations leading to the evidence-based approach to functional assessment of wetland ecosystems. (Functional Assessment of Wetland Ecosystems: Towards Evaluation of Ecosystem

Services, 2009).

- Pioneer of functional approach to wetland assessment and formalisation of the links between natural, social sciences and management and policy.

SPECIFIC CONTRIBUTIONS TO POLICY INNOVATIONS

- Advisor to UK Secretary of State for Environment on the UK National Ecosystem Assessment.
- Key role in the definition, interpretation and further elaboration of the 'Ecosystem Approach' under the terms of the Convention on Biological Diversity.
- Member of the working groups formulating the original definition of 'wise use' of wetlands under the terms of the Ramsar Convention and in the revision of criteria for recognition of wetlands of international importance.
- Member of the Technical Panel advising the EU on the Common Implementation Strategy for Wetlands under the Water Framework Directive.
- Advisor to the US Department of Justice on International Convention obligations and technical issues in relation to the Everglades lawsuit.

RESEARCH LEADERSHIP

- Establishment of the Institute for Sustainable Water, Integrated Management and Ecosystem Research, an innovative cross-disciplinary research institute at the University of Liverpool, securing major external funding and earning quickly a strong National and International profile of policy-related research.
- Director of the Wetland Ecosystems Research Group, a specialist research group with an emphasis on wetland functioning and the development of functional assessment procedures for European wetlands., sustainability of wetland resource use and human impacts; wetland restoration and management as a force for poverty alleviation as well as maintenance of environmental quality and biodiversity in developing countries.
- Principal Investigator peat research programme including practical measures for the restoration of disturbed and degraded peatland on three North York Moors.
- Specific field experience in the Falkland Islands, leading research in the 1980s on the characterisation of minefields with respect to terrain and peat analytical properties relevant to alternative detection and clearance options.
- Co-ordinator of several major international wetland research and other ecosystem projects with a combined budget exceeding £3 million dealing with SE Asia (Mekong Delta), South America, Southern Africa and Europe
- Member of Executive Committee and major partner in EUROLIMPACS, a £10 million EU project investigating the effects of climate change on freshwaters (including wetlands) with special responsibilities for development of a decision support tool at the catchment scale.
- Head of major EU LIFE project on application of the Ecosystem Approach to Sustainable River Catchment management in SE England (SURCASE) with funding support exceeding £1 million.
- Co-ordinator of major investigation of environmental impacts of engineering works in the Tigris-Euphrates basin on the Marshlands of Southern Iraq. Adviser to Iraq Foundation Eden Project, UK Government and UNEP on restoration plans for Mesopotamian Marshes (2003 - 2008). Member of US AID field mission to

Iraq marshes (2004).

- Co-ordinator of UK DFID and Darwin Initiative funded projects on wetlands restoration and poverty alleviation projects in Mekong Delta, Vietnam.

DELIVERY AND IMPLEMENTATION OF SCIENTIFIC AND OTHER TECHNICAL ADVICE

- Advocate on key issues relating to translation of science for decision-makers, wise use of wetlands, catchment management and essential role of human communities in conservation and environmental protection issues e.g. in European Parliament, Strasbourg 1995; advice to Convention on Biological Diversity on 'modus operandii' of Ecosystem Approach 1997 - 2005. Member of Technical Panel advising EU on Common Implementation Strategy for wetlands under the Water Framework Directive (2002 – 2004); UK government nominee to CBD Expert Group on Ecosystem Approach.
- Elected Chair of the IUCN Commission on Ecosystem Management 1996-2000 with responsibility on global scale for technical advice on application of cutting edge scientific knowledge to sustainable development and ecosystem management.
- Appointed member (since 1986) and Chairman (1991-96) of the IUCN Wetlands Scientific Advisory Committee.
- Technical advisor on management plan for Danube Delta Restoration, designation of Ramsar and World Biosphere Reserve status in the immediate post Ceausescu.
- Member NERC Expert Group on Wetlands.
- Expert advisor and evaluation of Fourth Framework Programme of European Commission DG XII; evaluator for Fifth Framework Programme 1999-2002.
- Member Steering Group of Tamar 2000 and West Country River Project (1997- 2002) concerned with restoration of environmental and especially water quality on a catchment (watershed) scale; contribution extended through advisory role to Cornwall Rivers Project (2002-2004) and founder trustee Tees Rivers Trust.
- Chair Braunton Burrows International Biosphere Reserve Interim Board.
- Advisor to Belgian and Netherlands governments on research programmes.
- Coordinating lead Author of the Biodiversity and Ecosystem Services chapter of The Economics of Ecosystems and Biodiversity (TEEB) project.
- Coordinating lead Author of the Freshwaters Chapter of the National Ecosystem Assessment.

RECENT SELECTED PUBLICATIONS:

Author, co-author or editor of more than 10 books and over 150 publications and reports, focusing on the importance of wetland ecosystems at all scales from global to local, and on the results of fundamental and applied wetland ecosystem research; presentation of more than 50 invited lectures/addresses at international conferences.

Bonnett, S.A.F., Linstead, C., Ross, S. & Maltby, E. (2009) Guidelines for monitoring the success of peatland restoration. Report for Natural England. University of Liverpool.

Bonnett, S.A.F., Ross, S., Linstead, C. & Maltby, E. (2009) A review of techniques for monitoring the success of peatland restoration. Report for Natural England. University of Liverpool

- Chen, H., Wood, M., Maltby, E** (2009) Uncertainty Analysis in a GIS-Based Multi-Criteria Analysis Tool for River Catchment Management. Environmental Modelling & Software
- Linstead, C., Crofts, R and Maltby, E** (2009) Ecosystems and Health: a UK Perspective. Sibthorp Trust, Liverpool
- Maltby, E., Barker T. (2009) Wetlands Handbook. Blackwell. 1058 pp.:**
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- Blackwell, M.S.A., Hogan, D.V., Pinay, G., and Maltby, E.** (2009) The Role of Buffer Zones for Agricultural Run-off. In: Maltby, E and Barker, T ed(s). The Wetlands Handbook. Oxford, Wiley-Blackwell.
- Maltby, E., Barker, T., Linstead, C.** (2009) Development of a European Methodology for the Functional Assessment of Wetlands. In: Maltby, E and Barker, T ed(s). The Wetlands Handbook. Oxford, Wiley-Blackwell.
- Maltby, E.** (2009) Re-establishment of Wetland Functioning. In: Maltby, E and Barker, T ed(s). The Wetlands Handbook. Oxford, Wiley-Blackwell.
- Safford, R.J., Maltby, E., Ni, D.V., Branch, N.P.** (2009) Melaleuca Wetlands and Sustainable Development of Wetlands. In: Maltby, E and Barker, T ed(s). The Wetlands Handbook. Oxford, Wiley-Blackwell.
- Maltby, E. and Barker, T.** (2009) Wetlands for the Future. In: Maltby, E and Barker, T ed(s). The Wetlands Handbook. Oxford, Wiley-Blackwell.
- Bonnett, S.A.F., Leah, R., & Maltby, E.** (2009) Optimisation of a B-Glucosidase enzyme assay in peat using the FLOUstar OPTIMA. <http://www.bmglabtech.com/application-notes/flourescence-intensity/glucosidase-in-peat.cfm> vol 10 issue 0 pp 10
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- Bonnett, S.A.F., Linstead, C., Ross, S & Maltby, E.** (2009) A Review of techniques for monitoring the success of peatland restoration. Peterborough, Natural England.
- Maltby, E. (2009) Functional Assessment of wetlands: Towards Evaluation of Ecosystem Services.** Woodhead Publishers, Cambridge. 672 pp.
- Battarbee, R.W., Kernan, M., Livingstone, D., Nickus, U., Verdonschot, P., Hering, D., Moss, B., Wright, R., Evans, C., Grimalt, J., Johnson, R., Maltby, E., Linstead, C., and Skeffington, R.** (2008) Freshwater ecosystem responses to climate change: the Euro-limpacs project. In Quevauviller, P., Borchers, U., Thompson, C. and Simonart, T. (eds) The Water Framework Directive - Ecological and Chemical Status Monitoring. John Wiley & Sons pp 313-515 ISBN 978-0-470-51836-6
- Maltby, E. (2008) Resolving peatland management and conservation dilemmas through implementation of the ecosystem approach.** Proceedings of 13th International Peat Conference, Tullamore, June 2008. pp 8-16 www.ipcireland2008.com.
- Sharma, A., Maltby, E. (2008) Sustainable Drainage Systems (SUDS): An integrated and joined-up approach to urban drainage** Journal of Institutional Environmental Scientist. Vol.17 pp8-13
- Okruszko, T., Maltby, E., Szatyłowicz, J., Swiatek, D. and Kotowski, W. ed(s)** (2007) WETLANDS Monitoring, Modelling and Management. Taylor & Francis, London
- Horlitz, T., Maltby, E., Linstead, C. and Chen, H** (2007) Euro-limpacs Decision Support System – A Tool to integrate environmental, social and economic data for catchment management in the context of climate change. Proceedings of the European symposium of Spatial Planning Approaches towards sustainable River Basin Management, Reports of Finnish Environment pp 93-94
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