

Curriculum Vitae

First name: Donal
Last name: Murphy-Bokern
Address: Lindenweg 12, 49393 Lohne-Ehrendorf, Germany
Telephone: +49 (0)4442 802190
Mobile: 49 (0)160 92792475
e-mail: donal(at)murphy-bokern.com
Website: www.murphy-bokern.com
Nationality: Irish

PROFILE

Donal Murphy-Bokern is a self-employed agricultural and environmental scientist based in Germany. He specialises in the scientific support of public policy development, research strategy development, and research management, especially in agriculture, food, bioenergy and land use.

The portfolio of completed work includes work on food policy and climate change mitigation for the WWF UK and the Committee on Climate Change (UK Parliament) and the UK Department for International Development, the German government, the European Commission, and the European Parliament.

Dr Murphy-Bokern is also a Visiting Fellow of Cranfield University where he supports the development of research of the Natural Resources Management Institute, particularly with respect to the application of Life-Cycle Assessment to agricultural systems. He is involved in two EU FP7 projects 'Legume Futures', and 'WATBIO'. He also works closely with the European Commission on agricultural research strategy development.

The common theme of this work is supporting excellence in the interactions between the science base, public policy, and users of research in the private sector. This focuses on deepening of the dialogue around the use of science in policy development and innovation in agricultural systems, particularly with regard to food systems and consumption, the development of farming systems, bioenergy systems, and the nitrogen cycle.

Dr Murphy-Bokern has a broad agricultural science background which extends across traditional sector and policy boundaries and includes economics and social science. This breadth is reinforced by experience leading a broad programme of agricultural and food research for the UK government in Defra where he worked as a senior manager for more than eight years in the Department of Food, Environment and Rural Affairs (Defra) in London. He coordinated a team of scientists managing a £38 million pa research budget and led a wide range of Defra's agricultural research programmes. He also worked closely with senior policy makers and ministers on a wide spectrum of agricultural and environmental policy areas. While in Defra, Dr Murphy-Bokern personally led a number of research areas: novel crop protection products and strategies, organic farming, non-food crops and bioenergy, arable crop genetic improvement and biotechnology, biomathematics and decision support system development, holistic systems analysis and life-cycle

assessment. Latterly, he established Defra's new R&D programme covering all Defra agricultural research linked to climate change policy and greenhouse gas mitigation.

Prior to moving to MAFF/Defra, Donal Murphy-Bokern was employed in a permanent position by the German Ministry of Agriculture based in the Federal Centre for Agricultural Research (FAL) at Braunschweig (1993 – 1998). He conducted research on the management of spatial variability in soil using GPS based technology ('precision-farming') in 1993 and 1994. In the period 1995 to 1998, he led several research projects on the use of agricultural materials in the building sector and the application of life-cycle assessment to agricultural systems.

Dr Murphy-Bokern's first long-term appointment was at the University of Newcastle upon Tyne in the UK where he managed the then newly founded North of England Arable Centre (1986 – 1992). The NEAC pioneered farmer-owned participatory research in an academic environment and Dr Murphy-Bokern managed the development of the NEAC from a membership of 46 farmers in 1986 to 330 in 1992 - the largest such centre in the UK. He developed and delivered an information service for local farmers based on research focused on the crop physiology of winter wheat, barley and oilseed rape. This field research focused on nitrogen fertiliser management and on predicting interactions between new cultivars and the environment of north-east England. The NEAC is now part of The Arable Group (TAG) in the UK.

Donal Murphy-Bokern gained a PhD from the University of Newcastle upon Tyne for his part-time research in crop physiology conducted in addition to his research and management duties there. He is a graduate of the National University of Ireland having studied general agricultural science at University College Dublin between 1978 and 1983.

WORK EXPERIENCE

- 1 April 2007 – Present
Self-employed. 49393 Lohne-Ehrendorf, Germany.
Independent scientist supporting European research strategy and management, research evaluation, and assessments of food and bioenergy systems.
- 1 January 1999 – 30 March 2007
Department of Environment, Food, and Rural Affairs (Defra). London, UK.
Various related and overlapping roles: Head of a Science Unit (1999-2006); Acting Head of Division and Farming and Food Science Co-coordinator; Programme manager for research on greenhouse gas emissions, ammonia emissions, climate change adaptation, and climate change mitigation.

Responsible for a wide range of Defra and LINK R&D programmes. Provision of related input into policy working directly with senior policy makers, ministers, and the Defra Chief Scientific Advisor.
- 1 January 1993 – 31 December 1998
Federal Ministry of Agriculture, Federal Agricultural Research Centre (FAL), Bundesallee 50, D 38116, Braunschweig, Germany.

Senior scientist (Wissenschaftlicher Angestellter/Wissenschaftliche Oberrat), research team leader.

January 1993 to 30 March 1995: Project leader working on spatial variation in soil and crop resources ('precision farming'). Thereafter (April 1995 – December 1998), led a new research group specialising in supply chain assessment (LCA), industrial ecology and the role of sustainable consumption in agricultural development. The work was initially focused on the use of agricultural materials in the building sector, particularly for insulation materials.
- 1 January 1986 – 31 December 1992
Department of Agriculture, University of Newcastle upon Tyne, NE1 7RU, UK. Research Associate responsible for developing and managing the North of England Arable Centre Ltd.
- September 1985 – November 1985
Self-employed in various roles:
The Irish Agricultural Development Authority (ACOT) writing video-text material; University College Dublin working on a survey of farmers quality of life as affected by succession (inheritance) arrangements.
- Six months in 1985
Temporary agronomist in a pesticide and forage-seeds retail business in Ireland
- 1978 - 1983
Farm experience – a total of two years experience on five farms in Ireland.

EDUCATION AND TRAINING

Bachelor of Agricultural Science	1978 – 1983. National University of Ireland, University College, Dublin 4. Basic and agricultural/environmental sciences; economics, social science, agricultural policy.
Master of Agricultural Science	1983 – 1984 National University of Ireland, University College, Dublin 4. By research - the thesis is entitled 'An investigation into the merits of the use of cultivar mixtures under Irish conditions'.
Degree of Doctor of Philosophy (PhD)	October 1987 – December 1992. University of Newcastle upon Tyne. Based on a part-time study conducted under University staff regulations. The thesis is entitled 'Crop structure and crop productivity in winter barley, (<i>Hordeum sativum</i>)'.
UK Civil Service	Completed UK civil service programmes in senior leadership and management.

LANGUAGES

English: Native speaker

German: Fluent in speaking and reading; fair in writing.

MEMBERSHIPS

European Society of Agronomy

British Society of Soil Science

MAJOR PROJECTS AND ASSIGNMENTS (AS SELF EMPLOYED, 2007 TO PRESENT)

2007-2008	For WWF UK Environmental impacts of the UK food economy with particular reference to WWF Priority Places and the North-east Atlantic.
2008-2009	WWF UK and the FCRN An assessment of greenhouse gas emissions from the UK food system and the scope for reduction by 2050. How low can we go? (with Cranfield University).
2009-2010	The Committee on Climate Change (UK Government) The effect of changes in UK food consumption on land requirements and greenhouse gas emissions. (with Cranfield University).
2010-2011	European Commission Impacts of EU Framework Programmes (2000-2010) and prospects for research and innovation in agriculture, animal health and welfare, and forestry. Unpublished report to the European Commission. (with eight other scientists).
2011-2012	Bundesministerium für Ernährung, Landwirtschaft und Verbraucherschutz (BMELV). Evaluation of the German Federal Research Programme on Organic Agriculture. (with Interval GmbH, the Organic Research Centre, and Applied University Eberswalde).
2011-2012	The European Commission The resource use efficiency of the European food cycle. Report for the European Commission. With BIOIS (Paris).
2013	The European Parliament The environmental role of protein crops in the new common agricultural policy.
2010 - 2014	European Commission, FP7 Legume Futures (www.legumefutures.eu)
2012-2017	European Commission FP7 WATBIO (www.watbio.eu)

REPORTS AND PUBLICATIONS

REFEREED JOURNAL PUBLICATIONS, MONOGRAPHS

Murphy, D.P.L., Dahab, M.H., Hossain, S., Wyseure, G.C.L. and O'Callaghan, J.R. (1994). The simulation of the effects of shading on the growth and yield of winter barley (*Hordeum sativum*). *Computers in Agriculture* 10:169-174.

Haneklaus, S., Murphy, D.P.L., Novak, G. and Schnug, E. (1994). Effects of the timing of sulphur application on grain yield and yield components of wheat. *Journal for Soil Science and Plant Nutrition* 158:83-85.

Thylen, L. and Murphy, D.P.L. (1996). The control of errors in momentary yield data from combine harvesters. *Journal of Agricultural Engineering Research* 64: 271-278.

Murphy, D.P.L., Behring, H., und Jäger, Ch. (1999). Perspektiven für Dämmstoffen aus heimischen nachwachsenden Rohstoffen (Prospects for insulation materials as industrial crop products). *Landbauforschung Völkenrode* (Refereed monograph 272pp). ISBN 3-933140-25-0.

Murphy, D.P.L., Roever, M. and Heinemeyer, O. (Editors) (1998). Bewertung der Verfahren der ökologischen und konventionellen landwirtschaftlichen Produktion im Hinblick auf den Energieeinsatz und bestimmte Schadgasemissionen. Evaluation of the conventional and organic agricultural production in terms of primary energy consumption and pollution gas emissions. *Landbauforschung Völkenrode* ISBN 3-933140-33-1(Refereed monograph, 206pp).

Graef F, Römbke J, Binimelis R, Myhr AI, Hilbeck A, Breckling B, Dalgaard T, Stachow U, Catacora-Vargas G, Bøhn T, Quist D, Darvas B, Dudel G, Oehen B, Meyer H, Henle K, Wynne B, Metzger MJ, Knäbe S, Settele J, Székács A, Wurbs A, Bernard J, Murphy-Bokern D, Buiatti M, Giovannetti M, Debeljak M, Andersen E, Paetz A, Dzeroski S, Tappeser B, van Gestel CAM, Wosniok W, Séralini G-E, Aslaksen I, Pesch R, Maly S, Werner A (2012): A framework for a European network for a systematic environmental impact assessment of genetically modified organisms (GMO). *BioRisk* 7: 73–97. doi: 10.3897/biorisk.7.1969

<http://www.pensoft.net/journals/biorisk/article/1969/abstract/a-framework-for-a-european-network-for-a-systematic-environmental-impact-assessment-of-genetically-modified-organisms-gm>

Westhoek, H., Lesschen, J., Rood, T., Wagner, S., De Marco, A., Murphy-Bokern, D., Leip, A., van Grinsven, H., Sutton, M., Oenema, O. (2013). Food choices, health and environment: effects of cutting Europe's meat and dairy intake. Paper submitted to an international scientific journal.

SCIENTIFIC PUBLICATIONS - NOT EXTERNALLY REFEREED

Murphy, D.P.L., Evans, E.J. and Sanderson, Anne. (1990).
The effect of nitrogen timing on winter barley. Proceedings of the First Congress of the European Society for Agronomy, Paris.

Kloepfer, F., Murphy, D. und Schnug, E. (1992).
Ertragskartierung zur gezielteren Düngung (Yieldmapping for targeted fertiliser application).
Landtechnik 47: 177-178.

Murphy, D.P.L., Evans, E.J. and Schnug, E. (1992).
A multivariate approach to the analysis of cereal crop structure at harvest. In: Proceedings of the Second Congress of the European Society for Agronomy, Warwick University, England.

Murphy, D.P.L., Frost, D. and Evans, E.J. (1993).
Grain yield and development of winter wheat as influenced by sowing date and cultivar. Aspects of Applied Biology 34: 99-104.

Murphy, D.P.L., Knight, S. and Evans, E.J. (1992).
Spikelet sterility and grain yield in five cultivars of winter wheat (*Triticum aestivum*). Tests of Agrochemicals and Cultivars 13: 132-133. Supplement to Annals of Applied Biology.

Schnug, E., Murphy, D.P.L. and Evans, E.J. (1992). Evaluation of yield mapping techniques for use in combinable crops. In: Proceedings of the Second Congress of the European Society for Agronomy, Warwick University, England. 206-207.

Schnug, E., Murphy, D., Evans, E. Haneklaus, S., and Lamp, J. (1993).
Yield mapping and the application of yield maps to computer aided local resource management. In: Soil Specific Crop Management, 87-93. Eds. Roberts, P.C., Rust, R.H. and Larson, W.E. American Society of Agronomy, Madison, Wisconsin.

Schnug, E., Murphy, D. and Haneklaus, S. (1993).
Local Resource Management in CAF (Computer Aided Farming), a new approach for sustainable agriculture. In: Soil Specific Crop Management pp 94 - 100. Eds. Roberts, P.C., Rust, R.H. and Larson, W.E. American Society of Agronomy, Madison, Wisconsin.

Schnug, E., Murphy, D.P.L., Haneklaus, S. and Evans, E.J. (1992).
Advanced approaches to local resource management in crop production. In: Proceedings of the Second Congress of the European Society for Agronomy, Warwick University, England. 372-374.

Murphy, D. and Schnug, E. (1993).
Applications of Geotechnics and Geostatistics in Agriculture.
Proc. Geotechnica'93: 162-163. Internationale Fachmesse und Kongreß für Geowissenschaften und Geotechnik, Köln, Germany. The Alfred Wegener Foundation, Bonn.

Murphy, D.P. and Schnug, E und Haneklaus S (1994).
Innovative soil sampling and analysis procedures for the local resource management of agricultural soils. Proceedings of the XVth Congress of the International Society of Soil Science 6b: 613-630.

Schnug, E. Haneklaus, S. and Murphy, D. (1993). Impact of sulphur supply on the breadmaking quality of wheat. Aspects of Applied Biology 36: 337-345.

Schnug, E., Haneklaus, S and Murphy, D. (1994).
Equipfertiles - an innovative concept for efficient sampling in the local resource management of agricultural soils. Aspects of Applied Biology 37: 63-72.

Murphy, D.P.L. and Scheski, A. (1994).
Impacts of unification and CAP reform on German agriculture. Aspects of Applied Biology 40: 27-34.

Schwarz, K.U., Schnug, E. and Murphy, D.P.L. (1994).
Studies of the growth and yield of *Miscanthus x Giganteus* in Germany. Aspects of Applied Biology

40: 533-540.

Schnug, E. Heym, F and Murphy, D.P. (1995). A boundary line determination technique (BOLIDES). Proceedings of the Second International Conference on Site-Specific Management for Agricultural Systems 899-908. American Society of Agronomy, Madison, WI.

Murphy, D.P., Schnug, E. and Haneklaus, S.
Yield mapping - a guide to improved techniques and strategies. Proceedings of the Second International Conference on Site-specific Management for Agricultural Systems 33-48. American society of Agronomy, Madison, WI.

Murphy, D.P., Schnug, E and Oestergaard, Hans. (1994).
Lokales Ressourcenmanagement - Ergebnisse und Ausblick (Local resource management - results and outlook). Proceedings of a national conference on the management of spatial variation in crops and soils (Technik und Verfahren der kleinräumigen Bestandesführung), 90-101. Kuratorium für Technik und Bauwesen in der Landwirtschaft. Darmstadt, Germany .

Murphy, D.P.L., J.-G. Krentler and H. Georg. (1995). Schnell nachwachsende Rohstoffe im Bauwesen (Arable crop materials in construction). Landtechnik 50: 342 and 355.

Murphy, D. P. L. and Helal, M. H. (1996).
Farming for Energy - Agronomic Principles and Environmental Impacts. 41 - 111. In: Murphy, D.P.L., Bramm, A. und Walker, K. Energy from Crops. Semundo Limited, Cambridge, England. 362pp.

Murphy, D.P.L., Gründel H., Sonnenberg H. und Bramm A. (1997). Biomass for materials and energy - setting priorities for the use of limited resources. Aspects of Applied Biology 49: 261-268.

Murphy, D.P.L., Georg, H. und Bockisch, F.-J. (1997). Development of a fibre crop processing infrastructure. Aspects of Applied Biology 49:321-326.

Thylen, L. and Murphy, D. P. L. (1997). Improving the quality of data for yield mapping. Proceedings of the First European Conference in Precision Farming. Ed. J. V. Stafford. BIOS Scientific Publishers. pp 743-750.

Murphy, D. P. L., Behring, H. and Wieland, H. (1997). The use of flax and hemp materials for insulating buildings. Proceedings of the FAO symposium 'Flax and other bast fibre plants'. Institute for Natural Fibres, Posnan, Poland, 79 - 84.

Murphy, D. P. L., Georg, H. and Bockisch, F.-J. (1997). Infrastructure for the exploitation of bast fibre crops in industry. Proceedings of the FAO symposium 'Flax and other bast fibre plants'. Institute for Natural Fibres, Posnan, Poland 162 - 164.

Wieland, H. and Murphy, D. P.L. (1997). Durability of flax fibre insulation materials in buildings. Proceedings of the FAO symposium 'Flax and other bast fibre plants'. Institute for Natural Fibres, Posnan, Poland 160 - 161.

Behring, H. and Murphy, D. P. L. (1997). Are flax based insulation products environmentally friendly? Proceedings of the FAO symposium 'Flax and other bast fibre plants'. Institute for Natural Fibres, Posnan, Poland 157 - 159.

Murphy, D.P.L., Behring, H., Wieland, H. Höppner, H. (1997). Hanf im Bauwesen (Building with hemp). Tagungsdokumentation der Veranstaltung am 28.8.1997 in Haus Düsse. Landwirtschaftskammer Westfalen-Lippe (Proceedings of a conference held by the agricultural advisory service Hannover in Haus Düsse).

Murphy, D.P.L. und Behring, H. (1998). Arable crop materials for insulation in buildings. Proceedings of the 10th European Congress 'Biomass for Energy and Industry' Würzburg 176 - 179.

Murphy, D.P.L. und Behring, H. (1998). The environmental impact of the use of arable crop materials in insulation. Proceedings of the 10th European Congress 'Biomass for Energy and Industry' Würzburg 747 - 748.

Murphy, D.P.L., Behring, H., Georg, H. und Wieland, H. Thermal insulation quality of bast fibres. Proceedings of Ag. Eng '98, Oslo.

Murphy, D.P.L., Georg, H. und Bockisch, F.-J. (1998). Processing infrastructure for technical bast fibre. Proceedings of Ag. Eng '98, Oslo.

Behring, H., Murphy, D.P.L. (1998). Environmental impacts of the use of flax for insulation. Proceedings of Ag. Eng '98, Oslo.

Murphy-Bokern, D (2001)
How can crop physiology support MAFF policy?
<http://www.defra.gov.uk/science/Publications/st0146.pdf>

Murphy-Bokern, D. (2010)
Understanding the carbon footprint of our food. Complete nutrition 10/5: 61-63

Rees, RM, Iannetta P, Murphy-Bokern D, Stoddard F, Topp CFE, Williams M, Watson CA and Zander P. (2011) Legume Futures: A research framework for understanding the role of legumes in farming systems (Legume Futures) Proceedings of the Nitrogen and Global Change Conference, Edinburgh

Murphy-Bokern, D. (2011).
The environmental implications of food choices. Proceedings of the Conference: Future Climate 2, The Challenge Continues. Institute of Mechanical Engineers.

Watson, C., Iannetta, P., Murphy-Bokern, D., Rees, R., Stoddard, F., Topp, K., Williams, M., and Zander, P. (2012). Legume-supported crop rotations: A European perspective. Abstracts of ESA12, the 12th Congress of the European Society for Agronomy, 20-24 August 2012, Helsinki, Finland, eds. Stoddard, F.L. & Mäkelä, P. Helsinki, Finland: Department of Agricultural Sciences publication 14. ISSN 1798-744X. <https://helda.helsinki.fi/handle/10138/36048>, pp. 138-139.

Murphy-Bokern, D., Williams, A., De Marco, A., Leip, A., Rood, T., Wagner, S., Westhoek, H. (2012). (2012). The agri-environmental implications of food choices. Abstracts of ESA12, the 12th Congress of the European Society for Agronomy, 20-24 August 2012, Helsinki, Finland, eds. Stoddard, F.L. & Mäkelä, P. Helsinki, Finland: Department of Agricultural Sciences publication 14. ISSN 1798-744X. <https://helda.helsinki.fi/handle/10138/36048>, pp. 264.

BOOKS

Murphy, D.P.L., Bamm, A. and Walker, K (1996). Energy from Crops. ISBN 0 9529190 01. Semundo Limited, Cambridge, England. 362pp.

THESES

Murphy, D.P.L. (1984). The merits of the use of cereal cultivar mixtures under Irish conditions. Thesis presented to the Faculty of Agricultural Science (M.Agr.Sc.), University College, Dublin.

Murphy, D.P.L. (1994).

Crop structure and crop productivity in winter barley (*Hordeum sativum*). Ph.D. thesis. University of Newcastle upon Tyne.

REPORTS

Murphy-Bokern, D. (2009). The climate change impacts of native grassland-based livestock production systems. Report for the UK Department for International Development (DFID).

www.murphy-bokern.com

Murphy-Bokern, D. (2010). Environmental impacts of the UK food economy with particular reference to WWF Priority Places and the North-east Atlantic. WWF UK. www.murphy-bokern.com

Audsley, E., Brander, M., Chatterton, J., Murphy-Bokern, D., Webster, C., and Williams, A. (2009). An assessment of greenhouse gas emissions from the UK food system and the scope for reduction by 2050. How low can we go?. WWF-UK and the FCN. www.murphy-bokern.com

Audsley, E., Chatterton, J., Graves, A., Morris, J., Murphy-Bokern, D., Pearn, K., Sandars, D. and Williams, A. (2010). Food, land and greenhouse gases. The effect of changes in UK food consumption on land requirements and greenhouse gas emissions. The Committee on Climate Change. www.murphy-bokern.com

Murphy-Bokern, D., Gherghinescu, O., Kraigher, H., Lazzeri, P., Peeters, A., Schmid, O., Scudamore, J., Toepfer, S., Westergaard, J. (2011). Impacts of EU Framework Programmes (2000-2010) and prospects for research and innovation in agriculture, animal health and welfare, and forestry. Unpublished report to the European Commission. Summary presentation available at www.murphy-bokern.com

Westhoek, H. Murphy-Bokern, D. et al. (2012). European Nitrogen Assessment. Special report on nitrogen and food. In review in public: <http://www.clrtap-tfrn.org/>

Pierre Sonigo, P, Bain, J., Tan, A., Johansson, L. Murphy-Bokern, D. Shields, L., Aiking, H., Erb, K., and Kastner, T. (2012). The resource use efficiency of the European food cycle. Report for the European Commission (in press)

Wiggering, H., Finckh, M., Heß, J., Wehling, Michaelis, T., with P., Bachinger, J., Beste, A., Böhm, H., Braun, J., Deerberg, F., Gierus, F., Groß-Spangenberg, A., Hahn, A., Hubbe, S-S., Kern, J., Klöble, U., Knierim, A., Krieg, S., Lange, S., Link, W., Manthey, R., Möller, D., Mosenthin, R., Murphy-Bokern, D., Prolingheuer, U., Recknagel, J., Rodehutsord, M., Schäfer, B.C., Schönweitz, C., Specht, M., Steingäß, H., Südekum, K-H., Sußmann, D., Szerencsits, M., Weiß, J., Weisz, U., Werner, A., and Zikeli, S. (2012). Science, economy and society – making ecosystem services from legumes competitive. A research strategy of the German Agricultural Research Alliance (DAFA). Wissenschaft, Wirtschaft, Gesellschaft – Ökosystemleistungen von Leguminosen wettbewerbsfähig machen. Forschungsstrategie der Deutsche Agrarforschungsallianz (DAFA) c/o Thünen-Institut Bundesallee 50 38116 Braunschweig www.dafa.de

UNEP (2012). Authors: Alder, J., Barling, D., Dugan, P., Herren, H.R., Josupeit, H., Lang, T., Lele, U., McClennen, C., Murphy-Bokern, D., Scherr, S., Willmann, R., Uphoff, N. [Avoiding Future Famines: Strengthening the Ecological Foundation of Food Security through Sustainable Food Systems. United Nations Environment Programme \(UNEP\), Nairobi.](http://www.unep.org/publications/avoiding-future-famines-strengthening-the-ecological-foundation-of-food-security-through-sustainable-food-systems)

Ekert, S; Döring, T., Häring, A.M.; Lampkin, N., Murphy-Bokern, D., Otto, K., Padel, S. and Vieweger, A. (2012). Evaluation of the German Federal Research Programme on Organic Agriculture. BLE (<http://orgprints.org/22369/>).

Bues, A., Kuhlmann, T., Lindstrom, K., Murphy-Bokern, D., Preissel, S., Reckling, M., Stoddard, F.L., Topp, K., Watson, C. and Zander, P. (2013) The environmental role of protein crops in the new common agricultural policy. The European Parliament. (www.murphy-bokern.com)

CONSULTATION RESPONSES

Murphy-Bokern, D. (2008). Response to consultation informing the Royal Society study on biological approaches to enhance food-crop production (www.murphy-bokern.com)

Murphy-Bokern, D. (2009). Response to the FSA's review of its advice on fish consumption. (www.murphy-bokern.com)

Murphy-Bokern, D. (2009). Written evidence to the House of Commons Select Committee on Environment, Transport and Rural Affairs. Securing food supplies up to 2050: the challenges faced by the UK. <http://www.publications.parliament.uk/pa/cm200809/cmselect/cmenvfru/213/213we72.htm>

Annex 2

LECTURES AND PUBLIC PRESENTATIONS
(not including talks made for Defra (1999-2007))

Mechanised management of local resources in agriculture. Annual meeting of the Institute of Agricultural Engineers, May 1992, Silsoe, Bedfordshire.

Applications of Geotechnics and Geostatistics in Agriculture. Geotechnica. Internationale Fachmesse und Kongreß für Geowissenschaften und Geotechnik. Köln, May 5, 1993.

Impact of sulphur supply on the baking quality of wheat. Association of Applied Biology Conference: Cereal Quality III, Churchill College, Cambridge, December 15, 1993.

Equipfertiles - an innovative concept for efficient sampling in the local resource management of agricultural soils. Sampling to make decisions. Association of Applied Biologists, Churchill College, Cambridge, March 21, 1994

Yield mapping - a guide to improved techniques and strategies. International Conference on Site-Specific Management for Agricultural Systems. Second International Conference on Site-specific Management for Agricultural Systems. American society of Agronomy, Minneapolis, March 27, 1994.

A boundary line determination technique (BOLIDES). International Conference on Site-Specific Management for Agricultural Systems. Second International Conference on Site-Specific Management for agricultural Systems. American Society of Agronomy Minneapolis, March 30, 1994

Lokales Ressourcenmanagement - Ergebnisse und Ausblick (Local resource management - results and outlook). Conference organised by the Kuratorium für Technik und Bauwesen in der Landschaft. Institut für Agrartechnik Bornim, Potsdam, Germany. April 14, 1994.

The environmental challenge - a threat or an opportunity for Irish farmers. Address to the Irish Tillage and Land Use Society at Braunschweig, June 15, 1994.

Impacts of unification and CAP reform in East Germany. Meeting of the Association of Applied Biologists on CAP reform, Cambridge, December 12, 1994.

Studies of the growth and yield of *Miscanthus x giganteus* in Germany. Meeting of the Association of Applied Biologists on CAP reform, Cambridge, December 14, 1994.

Hanf Fasern im Bauwesen (Hemp fibres in buildings). Tagung Gesellschaft der Freunden der FAL. (Conference of the Society of the Friends of the FAL). Forum der FAL, Braunschweig, March 21, 1996.

Nachwachsende Rohstoffe als Baustoffe (Industrial crop materials in buildings). Tagung zur Ausstellung „Zukunftsprodukte aus nachwachsenden Rohstoffen (Conference associated with the exhibition 'Future industrial crop products'. TAT Transferzentrum für Angepasste Technologien GmbH. Rheine, Oktober 9, 1996.

Biomass for materials and energy - setting priorities for the use of limited resources. Association of Applied Biology biomass and energy conference. Royal Agricultural College, Cirencester, England. April 8, 1997.

Hanf im Bauwesen (Building with hemp). Hanftag am 28.8.1997 im Haus Düsse. Landwirtschaftskammer Westfalen-Lippe.

Produktionsoptionen (Production options). Workshop organised to discuss the results of the project 'Perspektiven von Dämmstoffen aus nachwachsenden Rohstoffen' (Prospects for insulation materials from industrial crop products). Bundesforschungsanstalt für Landwirtschaft Braunschweig-Völkenrode, March 16 - 17, 1998.

Eignung biogener Fasern für die Wärmedämmung. Markt Innovation HANF Symposium. nova-Institut Hürth, and Faserinstitut Uni. Bremen (FIBRE) funded by European Social Funds. Bremen. December

9, 1998.

Dämmstoffe aus Hanf- und Flachsfasern: Konkurrenzsituation zu Agrar-Sekundärrohstoffen. Markt Innovation HANF Symposium. nova-Institut Hürth and TAT Transferzentrum für angepasste Technologie GmbH funded by European Social Funds. Rheine, December 9, 1998.

Poultry production – a life-cycle approach to appraisal and development. British Poultry Council Annual Meeting, Westminster London, 1 May, 2007. www.poultry.uk.com

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