
Publications and Presentations

EurGeol Dr. Robert Meehan, PGeo.

Books/Book Chapters

McDermott, C., Long, B.J., Harney, S., Claringbold, K., Daly, D. and **Meehan, R.T.** 1997 “Geology of Sligo-Leitrim. A geological description to accompany the Bedrock Geology 1:100,000 Map Series, Sheet 7, Sligo-Leitrim”. *Geological Survey of Ireland, Dublin, 100pp.*

Geraghty, M., Claringbold, K., Hudson, M., Farrelly, I., Jordan, C.J. and **Meehan, R.T.** 1997 “Geology of Monaghan-Carlingford. A geological description to accompany the Bedrock Geology 1:100,000 Map Series, Sheets 8 and 9, Monaghan-Carlingford”. *Geological Survey of Ireland, Dublin, 60pp.*

McConnell, B., Long, B.J., Claringbold, K., Cronin, C. and **Meehan, R.T.** 1997 “Geology of North Donegal. A geological description to accompany the Bedrock Geology 1:100,000 Map Series, Sheets 1-2, North Donegal”. *Geological Survey of Ireland, Dublin, 80pp.*

Meehan, R.T. and Warren, W.P., 1999. “The Boyne Valley in the Ice Age”. *Geological Survey of Ireland, Dublin, 84pp.*

McConnell, B., Philcox, M.E. and Geraghty, M., Morris, J., Cox, W., Wright, G.R. and **Meehan, R.T.**, 2001 “Geology of Meath. A geological description to accompany the Bedrock Geology 1:100,000 Map Series, Sheet 13, Meath”. *Geological Survey of Ireland, Dublin, 78pp.*

Meehan, R.T., 2006. A regional glacial readvance in Ireland: self-promulgating theory, or science-based reality? In Knight, P.G., *Glacier Science and Environmental Change. Blackwell Scientific Publishing, pp. 264-266.*

Refereed Publications

Meehan, R.T. 1995 “A new approach to Groundwater Protection Schemes in Ireland, incorporating detailed Quaternary Mapping as a basis for Vulnerability Ratings”. *Proceedings of the Royal Irish Academy, 95B, pp.140-141.*

Meehan, R.T., Warren W.P. and Gallagher, C.J.D. 1997. “The sedimentology of a late Pleistocene drumlin near Kingscourt, Ireland”. Paper presented to ‘Drumlin Symposium’ at the XIV INQUA Congress, Berlin, 7 August 1995. *Sedimentary Geology, 111, pp. 91-105. Elsevier Scientific Publishers, Amsterdam.*

Meehan, R.T. and Parkes, M.A., 1997. “A unique cave within Quaternary deposits in Dublin City”. *Irish Speleology, 16, pp. 9-11.*

Meehan, R.T., 1998. “Basic Concepts of Soil Science”. Chapter 4 of FAS Course Manual on ‘Site Suitability Assessment for On-Site Wastewater Treatment Systems’, pp 4.1-4.30.

Meehan, R.T., 1999. “Directions of ice flow during the last glaciation in counties Meath, Westmeath and Cavan, Ireland”. *Irish Geography, 32(1), pp.26-51. Geographical Society of Ireland, Dublin.*

Clark, C. D. and **Meehan, R.T.**, 2001. “Subglacial bedform geomorphology of the Irish Ice Sheet reveals major configuration changes during growth and decay”. *Journal of Quaternary Science, Vol. 16, Issue 5, pp. 483-496.*

Clark, C.D., **Meehan, R.T.**, Hattestrand, C., Carling, P., Evans, D. and Mitchell, W., 2001. “Palaeoglaciological investigations exploiting remote sensing, elevation models and GIS”. *Slovak Geological Magazine, 7(3),313.*

Loftus, M., Bulfin, M., Farrelly, N., Fealy, R., Green, S., **Meehan, R.** and Radford, T., **2002**. "The Irish Forest Soils project and its potential contribution to the assessment of biodiversity". In *'Biodiversity: Biology and Environment: Proceedings of the Royal Irish Academy, Special Edition'*, Vol. 102B, No. 3, pp. 151-164. Royal Irish Academy, Dublin.

Other Publications

Meehan, R.T., 1995 "Quaternary Mapping in County Meath as a basis for Groundwater Vulnerability Ratings", *"Baile": Journal of the UCD Geography Society*, April 1995, pp.51-54.

Meehan, R.T., 1996 "A Brief Introduction to Drilling Techniques used in Quaternary Studies", *"Baile": Journal of the UCD Geography Society*, May 1996, pp.24-27.

Meehan, R.T., 1996 "Quaternary Geology Maps". Geotechnical Society of Ireland Newsletter, Vol.1, No.4, November 1996, pp.1-2.

Meehan, R.T., 1997 "Ireland: an outline geography". Information pamphlet for Department of Foreign Affairs, Dublin. *Government Publications Bureau, 7 pp.*

Daly, D., Moore, B., Beirne, M., **Meehan, R.** and Swartz, M., **1998**. 'Site Suitability Assessment for On-Site Wastewater Treatment Systems: Course Manual'. *FAS, Tipperary (SR) County Council and Geological Survey of Ireland.*

Meehan, R.T., 1999 "Soils in Ireland – made easy", *"Baile": Journal of the UCD Geography Society*, April 1999, pp. 28-35.

Warren, W.P., **Meehan, R.T.** and Jordan, C., **1999**. "Field guide for days 1-3 of University of Stockholm Field Excursion: Ireland 1999". *Geological Survey of Ireland, Dublin, 64pp.*

Meehan, R.T., 2000. "Kells and adjacent areas, County Meath Ireland". *Glacial Landsystems Working Group Field Guide, Teagasc, Dublin, 70pp.*

Meehan, R.T., 2000. "Evidence for several ice marginal positions in east central Ireland, and their relationship to the Drumlin Readvance Theory". In Ehlers, J. (Editor) "Extent and Chronology of Worldwide Glaciation", INQUA Commission on Glaciation, Work Group 5, Special Publication, 6pp.

Hickey, C., Lee, M., Drew, D., **Meehan, R.** and Daly, D. "Lowland karst of north Roscommon and Westmeath". International Association of Hydrogeologists, Irish Group, Field Guide. 5th – 6th October **2002**. 30pp.

Bulfin, M., Farrelly, N., Fealy, R., Green, S., Loftus, M., **Meehan, R.** and Radford, T., **2002**. The Irish Forest Soils Project (FIPS – IFS). In Mollan, C. (Ed.), *'The Irish Scientist, 2002 Yearbook'*. pp. 46-47.

Meehan, R.T., 2003. "Soils – Types and Distribution". Contribution to 'Encyclopaedia of Ireland', Gill and Macmillan, Dublin. pp. 1004-1005.

Abstracts/Communications/Posters

Meehan, R.T. "A new approach to Groundwater Protection Schemes in Ireland, incorporating detailed Quaternary Mapping as a basis for Vulnerability Ratings", Poster presented at Fifth Environmental Researchers Colloquium, UCC, 13-15 January **1995**. Abstracts Volume.

Glanville, C., Jordan, C. and **Meehan, R.T.** "Quaternary Mapping for the Geological Survey of Ireland", Poster presented at Subglacial Processes Workgroup Field meeting, Aberdaron, Wales, 10-12 March **1995**

Meehan, R.T., Warren W.P. and Gallagher, C.J.D. “The sedimentology of a late Pleistocene drumlin near Kingscourt, Ireland”. Paper presented to ‘Drumlin Symposium’ at the XIV INQUA Congress, Berlin, 7 August 1995. Abstracts Volume.

Meehan, R.T. “Quaternary Mapping in County Meath from the academic and applied perspectives”, Paper presented to Sixth Irish Environmental Researchers Colloquium, UCD, 14 January 1996. Abstracts Volume.

Mitchell, F., Coxon, P., **Meehan, R.T.**, Hayes, C., Connolly, A. and von Engelbrechten, S. “The Knocknacran interglacial site: preliminary investigations”. Paper presented to IQUA AGM Discussion Meeting, 22 March, 1997. Abstracts Volume.

Meehan, R.T. “Summary of project to develop a forest soils classification and productivity coverage”. Research Report published in IQUA Newsletter, October 1998, pp. 6-8.

Bulfin, M., Doyle, M., Fealy, R., Green, S., Loftus, M. and **Meehan, R.T.** “Mapping Irish Soils for Forest Productivity”. Poster presented at Ninth Environmental Researchers Colloquium, Johnstown Castle, Wexford, 29-31 January 1999. Abstracts Volume.

Bulfin, M., Doyle, M., Fealy, R., Green, S., Loftus, M. and **Meehan, R.T.** “FIPS- Irish Forest Soils”. Presentation pack on Mapping Irish Soils for Forest Productivity purposes for project launch at Kinsealy Research Centre, 15 February 1999.

Meehan, R.T. “Directions of ice flow during the last glaciation in counties Meath, Westmeath and Cavan, Ireland”. Paper presented to IQUA AGM Discussion Meeting, 13 March, 1999. Abstracts Volume.

Meehan, R.T. “Directions of ice flow during the last glaciation in counties Meath, Westmeath and Cavan, Ireland”. Abstract of paper presented to IQUA AGM Discussion Meeting, IQUA Newsletter, No.22, April 1999, p.6-7.

Meehan, R.T. “The Quaternary sedimentology and Last Glaciation and Deglaciation of Northwest Meath and Adjacent parts of Westmeath and Cavan”. Unpublished PhD Thesis Abstract. IQUA Newsletter, No. 22, April 1999, p.11-12.

Meehan, R.T. “Directions of ice flow during the last glaciation in counties Meath, Westmeath and Cavan, Ireland”. Paper presented to Conference of Irish Geographers, St. Patricks College Drumcondra, Dublin, 15 May 1999. Abstracts Volume.

Meehan, R.T. “Summary of project to develop a forest soils classification and productivity coverage”. Research Report published in IAH Groundwater Newsletter, No. 35, May 1999, pp. 7-8.

Meehan, R.T. “Investigating the Irish Drumlin Readvance Theory”. Poster presented to ‘Extent and Chronology of Glaciation Symposium’ at the XV INQUA Congress, Durban, South Africa, 9 August 1999.

Meehan, R.T. “Lower Bann Valley and adjacent areas: IQUA Annual Field Meeting report”. Field Meeting Summary, IQUA Newsletter, No. 23, October 1999, p.1-4.

Meehan, R.T. and Hall, V. “INQUA Congress 1999 – The Environmental Background to Hominid Evolution in Africa (and much more) – a review”. Conference Report, IQUA Newsletter, No. 23, October 1999, p.7-10.

Clark, C.D. and **Meehan, R.T.** “Subglacial bedforms of the British and Irish Ice Sheets”. British Geomorphological Research Group 40th Anniversary Conference, University of Sheffield, Sheffield, U.K., 12th – 14th September 2000. Abstracts Volume.

Meehan, R.T. “The Quaternary Geology of west central Mayo”. Field handout for IQUA Field Trip, 8 October 2000, 13 pp.

Meehan, R.T. “Quaternary Websites of Interest”. Article in IQUA Newsletter, No. 25, October **2000**, p.4.

Meehan, R.T. “Pleistocene Geological Sites of north Galway and south Mayo”. Irish Glacial Studies Group Inaugural Field Trip Handout, 3rd-5th November **2000**, 15 pp.

Meehan, R.T. “Glaciations I”. Article in ‘Student Xpress’, Leaving Certificate Paper Educational Supplement, Geography Series, Volume 2, No. 4, 15 March **2001**, pp. 4-5.

Meehan, R.T. “Glaciations II”. Article in ‘Student Xpress’, Leaving Certificate Paper Educational Supplement, Geography Series, Volume 2, No. 6, 15 May **2001**, pp. 6-7.

Clark, C.D. and **Meehan, R.T.** “The Irish Drumlin Belt – a misnomer?”. Paper presented to IQUA AGM Discussion Meeting, 7 April, **2001**. Abstracts Volume.

Carr, S.J. and **Meehan, R.T.** “Glaciotectonised sediments at Mullaghmore, County Meath, Ireland: evidence of a large-scale readvance during ice sheet deglaciation?” Quaternary Newsletter, No. 95, October **2001**, pp. 23-26.

Meehan, R.T. and Clark, C.D. “Subglacial bedforms in Ireland: What do they tell us?”. Paper presented at Irish Quaternary Association (IQUA) Annual Symposium, 23 November **2001**. Abstracts Volume.

Bulfin, M., Farrelly, N., Fealy, R., Green,,S., Loftus, M., **Meehan, R.** and Radford, T., **2002**. “The Irish Forest Soils Project: FIPS-IFS”. The Irish Scientist Year Book 2002. pp.46-47.

Meehan, R.T. “Soil Parent Material Mapping reveals a revised perspective of areas with limestone bedrock in Ireland?”. Paper presented to IQUA AGM Discussion Meeting, 23 March **2002**. Abstracts Volume.

Meehan, R.T. “Soil Parent Material Mapping reveals a revised perspective of areas with limestone bedrock in Ireland”. Abstract of paper presented to IQUA AGM Discussion Meeting, IQUA Newsletter, No.28, April **2002**, p.5-6.

Meehan, R.T. “The Quaternary Geology of the Boyne Valley”. Field handout for IGA Field Trip to the Boyne Valley, 20 April **2002**, 12 pp.

Meehan, R.T. “Soil and subsoil mapping as part of the EU Water Framework Directive - baseline environmental mapping for Ireland”, Paper presented to IQUA AGM Discussion Meeting, Trinity College Dublin, 12 April **2003**. Abstracts Volume.

Meehan, R.T. “Scale issues in the conservation of Irish landforms”, Paper presented to Conference of Irish Geographers, Trinity College, Dublin, 4th May **2003**. Abstracts Volume.

Meehan, R.T. “The Quaternary Geology of the Louth Hills area”. Field handout for Open University Field Trip to the Louth Hills area, 15th June **2003**, 15 pp.