

# **Mineral Exploration Reference Bibliography**

Version 1.0

## **July 2007**

# Contents:

Books	Page 1
Papers	Page 2
Thesis	Page 55

Bibliography v1.0 July 2007

This bibliography is designed to be a reference tool only. The Exploration and Mining Division does not hold these publications. If any references are missing, please email the details to [EMD.info@dcenr.gov.ie](mailto:EMD.info@dcenr.gov.ie) where they can be verified before being added to the bibliography.

## Books:

- BARNES, H.L., 1997, Geochemistry of hydrothermal ore deposits., Wiley, 963pp
- BOATE, G., 1645, The Natural History of Ireland. Re-published in 1755 with Molyneux, T. and others., G. and A. Ewing, Dublin.,
- CALVERT, J., 1853, The gold rocks of Great Britain and Ireland, and a general outline of the gold regions of the world., London, Chapman and Hall., 324pp
- CENTRE FOR ENVIRONMENTAL MANAGEMENT AND PLANNING, 1989, Gold mining in Western Ireland: A scoping objectives document., Abordeen, 68pp
- COLE, G.A.J., HALLISSY, T., 1924, Handbook of the geology of Ireland, Thomas Murby and Co. London, 82pp
- COLE, G.A.J., 1922(Reprinted in 1956), Memoir and map of localities of minerals of economic importance and metalliferous mines in Ireland., First published by the Geological Survey of Ireland. Third edition published by The Mining Heritage Society of Ireland, 1998., 155pp
- COOTE, SIR C., 1801, Statistical Survey of the County of Monaghan., The Dublin Society, 256pp
- CREGG, R.P., LETTSON, 1987, Manual of the mineralogy of Great Britain and London., Van Voast London,
- DAIL COMMISSION, 1921, 1921, Memoir on the Coalfields of Ireland., Dail Commission, Dublin.,
- DEPARTMENT OF ECONOMIC DEVELOPMENT, 1991, Mineral Exploration and Development in Northern Ireland 1988 - 1991., HM50 Belfast, 35pp
- DEPARTMENT OF ECONOMIC DEVELOPMENT, 1988, Mineral Exploration and Development in Northern Ireland 1986 - 1988., HM50 Belfast, 16pp
- DONELAN, E. J., 1985, Energy and Mineral Resources Law in Ireland., The Round Hall Press Limited, Dublin., 214p
- EVERETT, C.E., WILKINSON, J.J. & RYE, D.M., 1997, Abstracts Volume, Dave Johnston Memorial meeting, Trinity College Dublin., Mineral Deposits Studies Group, Tectonic Studies Group and the Irish Association for Economic Geology.,
- FIRSOFF, S., 1971, Gemstones of the British Isles., Edinburgh, 152pp
- GREG, R.P., LETTSOM, W.G., 1858, Manual of the mineralogy of Great Britain and Ireland, London., London, 483pp
- HERRIES DAVIES, G.L., 1980, Richard Griffith 1784-1878, Royal Dublin Society, Historical Studies in Irish Science and Technology., 221pp
- HERRIES DAVIES, G.L., STEPHENS, N., 1978, Ireland, Methuen and Co. Ltd., London., 250pp
- HOLDSWORTH, J., 1857, Geology, minerals, mines and soils of Ireland., London, Houlston and Wright, 240pp
- HULL, E., 1905, The coalfields of Great Britain: Their history, structure and resources (5th Edition)., Rees, London.,
- IRISH ASSOCIATION FOR ECONOMIC GEOLOGY, 1979, Mineral Exploration in Ireland., Folens, Dublin., 92pp
- KANE, R., 1845, The Industrial Resources of Ireland (2nd edition). 1st edition 1844., Hodges and Smith, Dublin.,
- KENDALL, J.D., 1893, The iron-ores of Great Britain and Ireland., Crosby, Lockwood and Son, London.,
- LEIVIS, S., 1837, Topographical dictionary of Ireland in two volumes., London. S. Lewis & Co.,
- NAYLOR, D., BRUCK, P., Irish Rocks and Minerals, Folens,
- NEVILL, W.E., 1966, Geology and Ireland, 1963., Allen and Figgis, 1963, 250pp
- O'DOWD, L., 1990, Gold mining and the Irish environment., Earthworks, Bantry, Co. Cork., 34pages
- RIDGE, J.D., 1984, Annotated bibliographies of mineral deposits in Europe, part 1., Pergamon Press, Oxford, 778p.
- RIDGE, J.D., Annotated Bibliographies of Mineral Deposits in Europe, Part 1., Pergamon Press, p26-39, p38-53, p53-69
- ROBERT, F., 1801, General view of the agriculture and mineralogy, present state and circumstances of County Wicklow, with observations on the means of their improvement., Dublin, 1801, 289pp
- ROY, S., 1981, Manganese deposits., Academic Press., 458pp
- RUSSELL, G.E., 1990, The story of Silvermines, the mine and the company., McKerns Printing Works, Limerick,
- SIMOENS, G., 1921, The Gold and the Tin in the southeast of Ireland., Cahill and Co. Ltd., Dublin., 198pp
- SMITH, C., 1815, The Ancient and Present State of the County of Cork., Cork, 425pp.
- TWIGG, J.A., 1827, Report on the Iron Works and Collieries at Arigna, Roscommon Ireland., London, 55pp
- WARINGTON, W., SMITH, 1853, Records of the school of mines and the science applied to the Arts, Part 3, On the mines of Wicklow and Wexford.,
- WELD, I., 1832, Statistical Survey of the County of Roscommon., Dublin, 710pp (Notably p33-77)
- WHITE, M., 1992, Mount Leinster, Environment, mining and politics., Geography Publications, Dublin, 88pp
- WILKINSON, 1845, Practical geology and ancient architecture of Ireland.,

## Papers:

- AHERNE, S., REYNOLDS, N.A. & BURKE, D.J., 1992, Gold mineralization in the Silurian and Ordovician of south Mayo., The Irish Minerals Industry 1980-1990., BOWDEN, A.A., EARLS, G., O'CONNOR, P.G. and PYNE, J.F., Irish Association for Economic Geology., 39-50
- AHERNE, S., BURKE, D.J., HARRINGTON, K., REYNOLDS, N.A., VERBRUGGEN, K.N. & O'KEEFFE, N., 1989, Gold mineralization in the Silurian rocks, South Clew Bay, Co. Mayo., Transactions of the Institution of Mining and Metallurgy, 98, B: Applied Earth Science, B60-62
- ALLAN, J.R., BEATY, D.W., STURTEVANT, R.G., HITZMAN, M.W. & SHEARLEY, E., 1992, The origin of regional dolomite in the Waulsortian of southeastern Ireland: implications for ore deposition., Geological Society of America Abstracts with Programs, 24, A354
- ANDERSEN, J.C., POWER, M.R., 2003, Platinum-group elements in the United Kingdom and the Republic of Ireland., Platinum Group, Rare and Speciality Metals. Irish Association for Economic Geology, Weekend Course 2003, May 10th to 11th 2003., Irish Association for Economic Geology.,
- ANDERSON, W., 1957, The iron and coal of Connaught with a brief comparison between Creevelea and English irons., 1, 325-327.
- ANDERSON, I.K., 1986, Petrographical sulphur isotope studies on the Navan lead/zinc deposit, Ireland., Irish Association for Economic Geology, Dublin., Annual Review, p.45
- ANDERSON, I.K., ASHTON, J.H., BOYCE, A.J., FALLICK, A.E. & RUSSELL, M.J., 1998, Ore depositional processes in the Navan Zn-Pb deposit, Ireland., Economic Geology, 93, 535-563
- ANDERSON, I.K., ANDREW, C.J., ASHTON, J.H., BOYCE, A.J., CAULFIELD, J.B.D., FALLICK, A.E. and RUSSELL, M.J., 1989, Preliminary sulphur isotope data of diagenetic and vein sulphides in the Lower Palaeozoic strata of Ireland and Southern Scotland: implications for Zn+Pb+Ba mineralization., Journal of the Geological Society of London, 146, p715-720
- ANDERSON, I.K., ASHTON, J.H., BOYCE, A.J., FALLICK, A.E. and RUSSELL, M.J., 1989, A dual source of sulphur in the genesis of the Navan Zn-Pb deposit, Ireland., Terra, 1, p124
- ANDERSON, I.K., ANDREW, C.J., ASHTON, J.H., BOYCE, A.J., CAULFIELD, J.B.D., FALLICK, A.E. & RUSSELL, M.J., 1989, A sulphur isotopic reconnaissance study of mineralization in the lower Palaeozoic strata of Ireland and the Southern Uplands of Scotland: Implications for Zn-Pb-Ba mineralization in the Lower Carboniferous of Ireland., Journal of the Geological Society of London, 146, p. 715-720
- ANDREW, C.J., POUSTIE, A., 1986, Syndiagenetic or epigenetic mineralization - the evidence from the Tatestown zinc-lead prospect, Co. Meath., Geology and genesis of mineral deposits in Ireland., ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., Irish Association for Economic Geology, Dublin., 281-296
- ANDREW, C., 1993, Mineralization in the Irish Midlands., Mineralization in the British Isles., PATTRICK, R.A.D. and POLYA, D.A., London, Chapman and Hall., p. 208-269
- ANDREW, C.J., 1995, The Silvermines District, Ireland., Irish carbonate-hosted Zn-Pb deposits. (Guidebook Series), ANDERSON, K., ASHTON, J., EARLS, G., HITZMAN, M. and TEAR, S., Society of Economic Geologists., 21, 247-258
- ANDREW, C.J., ASHTON, J.H., 1981, Mineral textures: Metal zoning and ore environment of the Navan orebody, Co. Meath, Ireland., Mineral exploration in Ireland, Progress and developments 1971-81., BROWN, A.G., Irish Association for Economic Geology, Folens, Dublin., p35-46
- ANDREW, C.J., 1991, Irish zinc deposits - style and process in an orefield context., Minerals Industry International, July 1991, 9-16
- ANDREW, C.J., 1999, Mineral deposits in the region surrounding the European North Atlantic., North Atlantic Minerals Symposium Extended Abstracts Volume, 19th-22nd September 1999. Dublin, Ireland., STANLEY, G.A., Geological Survey of Ireland., 1-10
- ANDREW, C.J., ASHTON, J.H., 1985, The regional setting, geology and metal distribution patterns of the Navan orebody., Transactions of the Institution of Mining and Metallurgy, 94, B: Applied Earth Science, 66-93
- ANDREW, C.J., 1986, The tectono-stratigraphic controls to mineralization in the Silvermines area, Co Tipperary, Ireland., Geology and genesis of mineral deposits in Ireland: Dublin., ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., Irish Association for Economic Geology, p. 377-417
- ANDREW, C.J., 1993, Mineralization in the Irish Midlands., Mineralization in the British Isles., PATTRICK, R.A.D. and POLYA, D.A., Chapman & Hall., p208-269
- ANDREW, C.J., 1986c, The geological setting and style of mineralization at Ballyvergin, Co. Clare., Geology and genesis of mineral deposits in Ireland., ANDREW, C.J., CROWE, R.W.A., FINLAY, S. ET AL., Irish Association for Economic Geology, Dublin., pp. 475-80
- ANDREW, C.J., 1986b, A diagrammatic representation of the Courceyan stratigraphy of the Irish Midlands., Geology and genesis of mineral deposits in Ireland., ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., Irish Association for Economic Geology, Dublin., p239

- ANDREW, C.J., 1992, Basin development chronology of the lowermost Carboniferous strata in the Irish North-Central Midlands., The Irish Minerals industry 1980-1990., BOWDEN, A.A., EARLS, G., O'CONNOR, P.G. and PYNE, J.F., Irish Association for Economic Geology, Dublin., 143-169
- ANDREW, C.J., 1990, The relationship between mineralisation and basin development chronology in the Irish Central Midlands, The Irish Minerals Industry - A review of the decade, Abstracts volume and programme, Great Southern Hotel Galway, 21st - 23rd September 1990., Irish Association for Economic Geology,
- ANDREW, C.J., ASHTON, J.H., 1984, The geological setting, metal zonation patterns and genesis of the Navan Orebody, Ireland., Irish Association for Economic Geology, Dublin., Newsletter no. 27, p.6-7
- ANDREW, C.J., 1985, Tectonism, sedimentation and mineralization of the central Irish ore province (abstract)., Conference on the genesis of stratiform sediment-hosted Pb-Zn deposits., Stanford University, Abstracts Volume.,
- ANDREW, C.J., et. Al., 1986, Geology and genesis of mineral deposits in Ireland., Irish Association for Economic Geology, Dublin., 1986, 711p
- APJOHN, J., 1838, Analysis of some Irish Dolomites., Journal of the Geological society of Dublin, 6, p.368-381
- APJOHN, J., 1840, A new lead ore from Kilbricken Mine, County Clare., 8, 469-473
- APJOHN, 1859, The occurrence of electric calamine at the Silvermines, County of Tipperary., 157-9
- APJOHN, A., 1860, The occurrence of calamine at Silvermines., Journal of the Geological society of Dublin, 8, p. 157
- APJOHN, J., 1884, An account of the constitution of two ores of manganese from the south of Cork., Proceedings of the Royal Irish Academy, 2, 598-602
- ARCHER, J.B., 1980, Richard Griffith and the first published geological maps of Ireland., Richard Griffith 1748-1878, HERREIS DAVIES, G.L., AND MOLLAN, R.C., Royal Dublin Society, Historical Studies in Irish Science and Technology, 1, p.143-171
- ARGALL, P., 1879, Notes on the ancient and recent mining operations in the East Avoca District., 2, 3,
- ARGALL, P.H., KINAHAN, G.A., 1883, Notes on the recovery of copper from its solution in mine drainage with special reference to the Wicklow mines., Scientific Proceedings of the Royal Dublin Society, 3, 302-328(with plates 22 & 23)
- ARMSTRONG, D.G., 1974, Effect of anglesite in copper recovery at Avoca, Ireland., Transactions of the Institution of Mining and Metallurgy, 83, C161-168
- ARTHURS, J.W., 1999, Current activity in the Minerals Industry in Northern Ireland., North Atlantic Minerals Symposium Extended Abstracts Volume, 19th-22nd September 1999. Dublin, Ireland., STANLEY, G.A., Geological Survey of Ireland., 17-26
- ARTHURS, J.W., 1976, The geology and metalliferous mineral potential of the Sperrin Mountain area., Special Report for the Geological Survey of Northern Ireland., Geological Survey of Northern Ireland, 119pp
- ARTHURS, J.W., 1976a, The geology and metalliferous mineral potential of Northeast Antrim., Special Report for the Geological Survey of Northern Ireland., 52pp
- ASHBURN, K., 2003, Gold in Northern Ireland (abs)., North Atlantic Minerals Symposium Abstract Volume, Dublin, Ireland., IGES-NAMS 2003 - Dublin, Ireland., 121-3
- ASHBURN, K., 2004, Development and Exploration Update from the Curraghinalt Gold Deposit, Co. Tyrone., Irish Association for Economic Geology: Weekend Course 2004, 15th-16th May, Bundoran. 'Sediment-Hosted Gold Deposits', Irish Association for Economic Geology, c/o Geological Survey of Ireland.,
- ASHTON, J.H., BLACK, A., DUFFY, P., GERAGHTY, J., HOLDSTOCK, M., HYLAND, E., O'KEEFFE, W.G., POWELL, P.J. & FORD, C., 1995, Structural setting and metal distribution patterns in the Navan orebody., Models for carbonate-hosted base metal deposits: Abstracts of Killarney Conference., Irish Association for Economic Geology, Dublin., 1-7
- ASHTON, J.H., 1998, Irish type zinc, lead deposits - an overview., Irish Association for Economic Geology, Annual Review 1998., Irish Association for Economic Geology, Dublin., 32-43
- ASHTON, J.H., HOLDSTOCK, M.P., GERAGHTY, J.F., O'KEEFFE, W.G., MARTINEZ, N., PEACE, W. and PHILCOX, M.E., 2001, The Navan Orebody: Discovery and geology of the SW extension., Institute of Quarrying Northern Ireland Branch and Irish Mining and Quarrying Society., Extractive Industry Ireland, 2, 2001, 50-52
- ASHTON, J.H., 2001, Mineral resource & ore reserve estimate at Tara Mines, Navan., Irish Association For Economic Geology Weekend Course, Faithlegg House, Waterford, 12th-13th May 2001. Estimation and Classification of Mineral Resources and Ore Reserves: The State of the Art., Irish Association for Economic Geology.,
- ASHTON, J.H., BLACK, A., GERAGHTY, J., HOLDSTOCK, M. & HYLAND, E., 1992, The geological setting and metal distribution patterns of Zn-Pb-Fe mineralization in the Navan Boulder Conglomerate., The Irish Minerals Industry 1980-1990., BOWDEN, A.A., EARLS, G., O'CONNOR, P.G. and PYNE, J.F., Irish Association for Economic Geology, Dublin., pp 171-210
- ASHTON, J.H., HOLDSTOCK, M.P., GERAGHTY, J.G., O'KEEFFE, W.G., MARTINEZ, N., PEACE, W. & PHILCOX, M.E., 2003, The Navan Orebody: Discovery and geology of the SW extension., Proceedings of the IAEG Millennium Conference on Europe's base metal deposits, Galway, May 2000., KELLY, J.G., ANDREW,

- C.J., BOLAND, M.B., EARLS, G., FUSCIARDI, L. and STANLEY, G., Irish Association for Economic Geology, Dublin.,
- ASHTON, J.H., DOWNING, D.T. & FINLAY, S., 1986, The geology of the Navan Zn-Pb orebody., Geology and genesis of mineral deposits in Ireland: Dublin., ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., Irish Association for Economic Geology, p. 243-280
  - ASHTON, J.H., 1989, Technical computer usage at Tara Mines Ltd. Navan., Irish Association for Economic Geology, Dublin., Annual Review, p.36-38
  - ASHTON, J.H., HARTE, G., 1988, Technical Computerization at Tara Mines Ltd. Navan., Irish Association for Economic Geology, Dublin., Annual Review, p.89-92
  - ASHTON, J.H., 1995, Guide to the geology of the Navan orebody., Irish carbonate-hosted Zn-Pb deposits., ANDERSON, I.K., ASHTON, J.H., EARLS, G., HITZMAN, M.W. and TEAR, S., Society of Economic Geologists, Fort Collins., pp 151-168
  - AUCOTT, J.W., 1968, Relationship between gamma activity geochemical variation and layering in the Galway,
  - BADHAM, J.P.N., 1978, Slumped sulphide deposits at Avoca, Ireland and their significance., 87, B21-26
  - BADHAM, J.P.N., 1979, Discussion of Badham 1978., Transactions of the Institution of Mining and Metallurgy, 88, B, 69-74
  - BADHAM, J.P.N., 1981, Shale-hosted Pb-Zn deposits: products of exhalation of formation waters?, Transactions of the Institution of Mining and Metallurgy, 90, B: Applied Earth Science, B70-6
  - BADHAM, J.P.N., 1979, Slumped sulphide deposits at Avoca, Ireland, and their significance (Discussion of)., Transactions of the Institution of Mining and Metallurgy, 88, B73-B74
  - BAILEY, M.L., 1991, Air quality monitoring and mining in Ireland., Irish Association for Economic Geology, Dublin., Annual Review, 33-35
  - BALL, V., 1895, The gold nuggets hitherto found in the County Wicklow., Scientific Proceedings of the Royal Dublin Society, 8, 311-23
  - BANKS, D.A., 1985, A fossil hydrothermal worm assemblage from the Tynagh lead-zinc deposit in Ireland., Nature, 313, p. 128-131
  - BANKS, D.A., RUSSELL, M.J., 1992, Fluid mixing during ore deposition at the Tynagh base metal deposit, Ireland., Eur. J. Mineral, 4, 921-931
  - BANKS, D.A., 1986, Hydrothermal chimneys and fossil worms from the Tynagh Pb-Zn deposits, Ireland., Geology and genesis of mineral deposits in Ireland., ANDREW, C.J., CROWE, R.W.A., FINLAY, S. PENNELL, W.M. and PYNE, J.F., Dublin, Irish Association for Economic Geology., p. 441-447
  - BANKS, D.A., BOYCE, A.J. & SAMSON, I.M., 2002, Constraints on the fluids forming Irish Zn-Pb-Ba deposits: Evidence from the composition of fluid inclusions., Economic Geology, 97, p. 471-480
  - BANKS, D.A., 1986, Hydrothermal chimneys and fossil worms from the Tynagh Pb-Zn deposit, Ireland., Geology and genesis of mineral deposits in Ireland., ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., Irish Association for Economic Geology, Dublin., 441-447
  - BARNES, E., 1864, A brief description of the Ballymurtagh mine, the property of the Wicklow Copper Mine Company (Handwritten transcription in GSI archives).,
  - BARNETT, J., 1983b, Mineral Resources Management., BEAM, 3, 1, 24-27
  - BARNETT, J., 1994, The aggregate sector and the environment, The Extractive Industry and the Environment in Ireland, Britain and the rest of the EC., GARDINER, P.R.R., The Irish Mining and Quarrying Society, p.71-76
  - BARNETT, J., 1982, Aspects of mineral ownership., BEAM, 3, 10-14
  - BARNETT, J., 1983a, Irish planning and Minerals Industry., BEAM, 1, 4, 35-39
  - BARNICOAT, A.C., FREEMAN, S.R., PHILLIPS, G.M., WILKINSON, J.J., EVERETT, C.E., BOYCE, A.J., YARDLEY, B.W.D., GLEESON, S., GRAHAM, C.M. and BLAKEMAN, R., 2001, Origin of the Navan Zn-Pb Orebody., A hydrothermal odyssey, Extended Conference abstracts, Townsville, May 2001., WILLIAMS, P.J., pp14-15
  - BARROW, N., PEARSON, C.F.C, POWELL, P., EDWARDS, J., 1991, The source and extent of hydrocarbon gas occurrences near to an underground zinc mine at Navan, Co. Meath, Ireland., Methane Facing the Problems,
  - BARTON, R., 1757, Lectures in natural philosophy designed to be a foundation for reasoning pertinently upon the petrification gems, crystals and sanative quality of Lough Neagh in Ireland, Dublin.,
  - BAZLEY, R.A., 1969, A discovery of Galena near Feeny, Co. Londonderry., 16, 233-234
  - BEARY, S., 2003, Ground Limestone Industry: giving life to the land, improving water quality., The Irish Mining and Quarrying Society., Extractive Industry Ireland, 2003, 65-67
  - BEATY, D.W., ALLAN, J.R. & HITZMAN, M.W., 1991, The relationship of dolomitization and mineralization at the Lisheen deposit, South Central Ireland (abs)., Geological Society of America Abstracts with Programs, 23, A172
  - BEESE, A.P., BRUCK, P.M., FEEHAN, J. and MURPHY, T., 1983, A silica deposit of possible Tertiary age in the Carboniferous Limestone near Birr, County Offaly, Ireland., Geological Magazine, 120, 331-340

- BELL, A., 1992, The Leinster Granites: Dimension Stone Potential., Geological Survey of Ireland Report Series., 92/4, pp107
- BELL, A., 1992, The Mayo-Sligo Granites dimension stone potential., Geological Survey of Ireland Report Series RS 92/2, Authority of the Minister for Energy., 61pp
- BELL, A., 1992, The Donegal Granites: Dimension Stone Potential., Geological Survey of Ireland Report Series., 92/3, pp139
- BELL, A., 1992, The Galway Granites: Dimension Stone Potential., Geological Survey of Ireland Report Series., 92/1, pp113
- BELL, A., 1991, Natural Stone Survey (granite)., GSI Industrial Minerals Newsletter, 14, 3-4
- BELL, A., 1991, Planning quarries from the environmental point of view., Irish Association for Economic Geology, Dublin., Annual Review, 37-40
- BERNAU, R., MOON, C.J., 2003, Interpretation of large regional geochemical open-file data sets using GIS: An example from SW Ireland., IGES 2003, Abstracts Volume, Dublin, Ireland: 29th August - 3rd September 2003., IGES-NAMS 2003 - Dublin, Ireland., 73-74
- BISCHOFF, J.L., RADKE, A.S. & ROSENBAUER, R.J., 1981, Hydrothermal alteration of greywacke by brine and seawater: Role of alteration and chloride complexing on metal solubilization at 200 degrees C and 350 degrees C., Economic Geology, 76, 659-676
- BISHOPP, D.W., McCLUSKEY, J.A.G., 1948, Sources of Industrial Silica in Ireland., Emergency Period Pamphlet., Geological Survey of Ireland., 3,
- BISHOPP, D.W., 1946, The occurrence of nickel and magnetite in some Irish serpentines, in conjunction with a magnetic survey., 24, 125
- BISHOPP, D.W., 1948, Economic geology and the Triassic rocks., The Geology of Eastern Ireland. 18th International Geological Congress, London., p28-32
- BISHOPP, D.W., 1947, Irish Sources of Lime and Magnesia of High Purity Limestone, Dolomite and Brucite Marble., Emergency Period Pamphlet., Geological Survey of Ireland., 2, 51pp
- BISHOPP, D.W., 1944, Mineral resources., The Natural Resources of Ireland., 55-61
- BISHOPP, D.W., 1943, A short review of Irish Mineral resources., The Geological Survey of Ireland Emergency Period-Pamphlet No. 1, The Stationary Office., 20pp
- BLACKWELL, G.G., 1895, Bauxite of Co. Antrim., Transactions of the Manchester Geological Society, 22, 525-533
- BLAIR, C.P., 1970, Geology in the mining industry., April 1970,
- BLAKEMAN, R., ASHTON, J.H., BOYCE, A.J., FALLICK, A.E. & RUSSELL, M.J., 2002, Timing of interplay between hydrothermal and surface fluids in the Navan Zn-Pb orebody, Ireland: evidence from metal distribution trends, mineral textures and delta34 analyses., Economic Geology, 97, 73-91
- BLAKEMAN, R.J., ASHTON, J.H., BOYCE, A.J., FALLICK, A.E. and RUSSELL, M.J., 1999, Metal enrichment trends within the Navan Zn-Pb deposit: Indicators of feeder zones., Mineral deposits: Processes to processing., STANLEY, C.J. ET. AL., A.A.Balkema/Rotterdam/Brookfield/1999., 2, 857-860
- BLAKEMAN, R.J., ASHTON, J.H., BOYCE, A.J., FALLICK, A. and RUSSELL, M.J., 2001, The palaeohydrology of the Navan Deposit, Ireland, at the time of mineralization using metal distribution trends, mineral textures and sulphur isotope data., North Atlantic Minerals Symposium Extended Abstracts Volume, May 27-30, 2001., Geological Survey of Ireland., 1-7
- BLAKEMAN, R.J., ASHTON, J.H., BOYCE, A.J., FALLICK, A.E. and RUSSELL, M.J., 1999, Major element distribution patterns in the Navan Zn-Pb deposit: indicators of feeder zones during mainstage mineralisation., Mineral deposits: Processes to proceedings. Proceedings of the 5th Biennial SGA Meeting, London, England., STANLEY, C.J., Balkema, Rotterdam., 2, p. 813-816
- BLANEY, D., TENNANT, S. & TYLER, P., 2003, Geology, alteration and mineralization of the Pallas Green Licence block, Co. Limerick, Ireland., Europe's Major Base Metal Deposits., KELLY, J.G., ANDREW, C.J., ASHTON, J.H., BOLAND, M.B., EARLS, G., FUSCIARDI, L. and STANLEY, G., Irish Association for Economic Geology., 533-544
- BLANEY, D., 2003, The geology, alteration and mineralization of the Pallas Green Prospect, Co. Limerick., NAMS 2003, Abstracts Volume, Dublin, Ireland: 1st September - 3rd September 2003., IGES-NAMS 2003 - Dublin, Ireland., 107-109
- BLENKINSOP, G.H., 1902, Notes on the Berehaven Copper-Mines., Transactions of the Institution of Mining and Metallurgy, 12, 1-7
- BLENKINSOP, G.H., 1904, Notes on the Berehaven Copper-mines., 12, 213-219
- BOAST, A.M., COLEMAN, M.L. & HALLS, C., 1981, Textural and stable isotopic evidence for the genesis of the Tynagh base metal deposit Ireland., Economic Geology, 76, 1, 27-55
- BOAST, A.M., SWAIRBAN, I., COLEMAN, M.L. & HALLS, C., 1981, Lead isotope variation in the Tynagh, Silvermines and Navan base-metal deposits., Transactions of the Institution of Mining and Metallurgy, 90, B115-9

- BOAST, A.M., 1978, Textural and stable isotopic evidence for the genesis of the Tynagh base-metal deposit, an initial report., *Journal of the Geological Society of London*, 135, 584
- BOLAND, M., POUSTIE, A., CLIFFORD, A.J., MELDRUM, A.H., 1990, Residual Base Metal & Barite Mineralisation at Silvermines Co. Tipperary - A Case History., *The Irish Minerals Industry - A review of the decade*, Abstracts volume and programme, Great Southern Hotel Galway, 21st - 23rd September 1990., Irish Association for Economic Geology, Abstracts volume and programme., 7,
- BOLAND, M., 1988, Industrial minerals activity in 1988., *Irish Association for Economic Geology Annual Review.*, Irish Association for Economic Geology, p.28
- BOLAND, M., 1987, Stone and Exploration., *Irish Association for Economic Geology, Dublin.*, Annual Review, 93-94
- BOLAND, M.B., CLIFFORD, J.A., MELDRUM, A.H. & POUSTIE, A., 1992, Residual base metal and barite mineralization at Silvermines, Co. Tipperary, Ireland., *The Irish Minerals Industry 1980-1990.*, BOWDEN, A.A., EARLS, G., O'CONNOR, P.G. and PYNE, J., Irish Association for Economic Geology, Dublin., 247-260
- BOLAND, M., 1987, Lignite in Northern Ireland., *GSI Industrial Minerals Newsletter*, 4, 2
- BOLAND, M., 1996, The Curraghinalt Gold Deposit in Co. Tyrone, Northern Ireland., *Mineralization in the Caledonides: Institution of Mining and Metallurgy Conference*, June 1996, Edinburgh, Scotland.,
- BOLTON, H., 1908, On a selection of the Lower Coal Measures of Emerald Pit, Dungannon., *Rep. Brit. Ass. Adv. of Science*, Dublin,
- BONI, M., 1986, Pb-Zn-Ba ore deposits in the Sardinian Cambrian: a comparison with the Irish Carboniferous., *Geology and genesis of mineral deposits in Ireland.*, ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., Irish Association for Economic Geology, Dublin., 677-684
- BONSON?, C., WALSH, J., WHITTY, S., McDERMOTT, P. and BOWDEN, A., 2005, Structural geology of the Galmoy carbonate-hosted Zn-Pb orebodies, Co. Kilkenny, Ireland., *The Mineral Deposits Studies Group Annual Winter Conference 4th - 6th January 2005*, The Ulster Museum, Belfast: *Mineral Deposits in the 21st Century.*, The Mineral Deposits Studies Group.,
- BOWDEN, A., GATELY, J., McDERMOTT, P., HENDERSON, P. MURRAY, A., CARROLL, D. and BALDING, B., 2003, The discovery and geology of the R-Zone at the Galmoy Mine, Co. Kilkenny., *NAMS 2003, Abstracts Volume*, Dublin, Ireland: 1st September - 3rd September 2003., *IGES-NAMS 2003 - Dublin, Ireland.*, 106-107
- BOWDEN, A.A., GATELY, J. and MacDERMOT, P., 2004, The discovery and geology of the R-Zone at the Galmoy Mine, Co. Kilkenny., *The Irish Mining and Quarrying Society.*, *Extractive Industry Ireland*, 2004, 36-37
- BOWLES, J.F.W., 1988, Mechanical and chemical modification of alluvial gold., *Aus. IMM Bulletin and Proceedings*, 293, 3, p9-11
- BOYCE, A.J., FALLICK, A.E., FETCHER, T.J., RUSSELL, M.J. & ASHTON, J.H., 1994, Detailed sulphur isotope studies of the Lower Palaeozoic-hosted pyrite below the giant Navan Zn + Pb mine, Ireland: Evidence of mass transport of crustal S to a sediment-hosted deposit., *Mineral Deposits.*, 58A, p. 109-110
- BOYCE, A.J., 1986, Central Irish sulphur isotopes data in the light of the rift geological-metallogenic model., *Geology en Mijnbouw*, 65, 75-78
- BOYCE, A.J., ANDERTON, R., RUSSELL, M.J., 1982, Rapid subsidence and early Carboniferous base-metal mineralization on Ireland., *Transactions of the Institution of Mining and Metallurgy*, 92, B55-B65
- BOYCE, A.J., COLEMAN, M., AND RUSSELL, M.J., 1983, Formation of fossil hydrothermal chimneys from Silvermines, Ireland, by reaction of hydrothermal iron with bacteriogenic brine-peel sulphide., *Institute of Geological Sciences, Stable Isotope Report.*, 93, 1-14
- BOYCE, A.J., COLEMAN, M.L. & RUSSELL, M.J., 1983b, Formation of fossil hydrothermal chimneys and mounds from Silvermines, Ireland., *Nature*, 306, p. 545-550
- BOYCE, A.J., FALLICK, A.E., LITTLE, C.T.S., WILKINSON, J.J. & EVERETT, C.E., 1999, A hydrothermal vent tubeworm in the Ballynoe Barite deposit, Silvermines, Ireland: implications for timing and ore genesis., *Mineral deposits: Processes to processing.*, STANLEY, C.J. ET. AL., *Proc. Joint SGA-IAGOD Symposium*, London. A.A. Balkema, Rotterdam., 2, pp 825-827
- BOYCE, A.J., LITTLE, C.T.S. & RUSSELL, M.J., 2003, A new fossil vent biota in the Ballynoe Barite deposit, Silvermines, Ireland: evidence for intracratonic sea-floor hydrothermal activity about 352 Ma., *Economic Geology*, 98, 649-656
- BOYCE, A.J., EVERETT, C.E., WILKINSON, J.J., GLEESON, S., BANKS, D., SAMSON, I., FALLICK, T., ASHTON, J. and ANDERSON, K., 2002, More evidence linking fluids and sulphur in the basement to the overlying Irish-type Zn+Pb+/-Ba+/-Ag deposits., *Irish Association for Economic Geology Weekend Course 2002 (Westport, Co. Mayo, Ireland) Abstracts Volume: Basement Controls on Mineralization in the Irish Orefield.*, Irish Association for Economic Geology., 75-79
- BOYCE, A.J., WILKINSON, J.J., EARLS, G., BOLAND, M., CAREY, P.F., FALLICK, A.E., HUTTON, D.H.W., JOHNSTON, J.D., LEGG, I.C., MOLES, N.R. & PARNELL, J., 1997, Gold mineralization at



- Curraghinalt, Ireland., Multiple fluids in a mesozonal gold deposit (abs.) Geofluids 2 Conference, Queens University, Belfast, Extended Abstracts., Queens University, Belfast., 175-178
- BOYCE, A.J., ANDERSON, R. & RUSSELL, M.J., 1983, Rapid subsidence and early Carboniferous base-metal mineralization in Ireland., Transactions of the Institution of Mining and Metallurgy, 92, p. B55-66
  - BOYCE, A.J., WILKINSON, J.J., EVERETT, C.E., LEE, M.J. and EYRE, S.L., 2001, Ore genesis in the Irish Zn-Pb-Ba Orefield: New perspectives on old problems., North Atlantic Minerals Symposium Extended Abstracts Volume, May 27-30, 2001., Geological Survey of Ireland., 8-11
  - BOYD-BARRETT, D., 1988, Financing for gold mines in Ireland., Irish Association for Economic Geology, Dublin., Annual Review, 61-63
  - BRAITHWAITE, C.J.R., RIZZI, G., 1997, The geometry and petrogenesis of hydrothermal dolomites at Navan, Ireland., Sedimentology, 44, 421-440
  - BRAND, S.F., EMO, G.T., 1986, A note on Zn-Pb-Ba mineralization near Oldcastle, Co. Meath., Geology and genesis of mineral deposits in Ireland., ANDREW, C.J., CROWE, R.W.A., FINLAY, S. PENNELL, W.M. and PYNE, J.F., Dublin, Irish Association for Economic Geology., 297-304
  - BRASSINGTON, F.C., 1982, Hydrogeological problems caused by mining and quarrying., Transactions of the Institution of Mining and Metallurgy, 92, B192-198
  - BRIGGS, S., 2004, Historic records of mining on Mount Gabriel., Journal of the Mining Heritage Trust of Ireland, 4, December 2004, 19-26
  - BRIGGS, S., BRENNAN, J. and FREEBURN, G., 1973, Irish Pre-historic gold working: some geological and metallurgical considerations., Bulletin of the Historical Metallurgy Group 7., 18-26
  - BRINDLEY, J.C., 1957, Geology 1. Basement Rocks., A review of Ireland., MEENAN, J. and WEBB, D.A., British Association for the Advancement of Science, Dublin., p. 15-22
  - BRISKEY, J.A., DINGESS, P.R., SMITH, F., GILBERT, R.C., ARMSTRONG, A.K. and COLE, G.P., 1986, Localization and source of Mississippi Valley-type zinc deposits in Tennessee, USA, and comparison with Lower Carboniferous rocks in Ireland., Geology and genesis of mineral deposits in Ireland., ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., Irish Association for Economic Geology, Dublin., 635-662
  - BROCK, A., BROWN, C. & GARLAND, M., 1990, Gravity and magnetic data processing methods - a review with Irish examples., The Irish Minerals Industry - A review of the decade, Abstracts volume and programme, Great Southern Hotel Galway, 21st - 23rd September 1990., Irish Association for Economic Geology, Abstracts volume and programme., 8,
  - BROCK, A., BROWN, C. & GARLAND, M., 1992, Gravity and magnetic data processing methods - a review with Irish examples., The Irish Minerals Industry 1980-1990., BOWDEN, A.A., EARLS, G., O'CONNOR, P.G. & PYNE, J., Irish Association for Economic Geology, Dublin., 383-394
  - BROWN, A.G., 1979, The Navan (Tara) Deposit in Excursion handbook., Prospecting in areas of glaciated terrain, Ireland, BROWN, A.G., Irish Association for Economic Geology, Folens, Dublin., 25-33
  - BROWN, C., BROCK, A. and CALDWELL, G., 2002, Electromagnetic methods to investigate basement controls on mineralization., Irish Association for Economic Geology Weekend Course 2002 (Westport, Co. Mayo, Ireland) Abstracts Volume: Basement Controls on Mineralization in the Irish Orefield., Irish Association for Economic Geology., 39-42
  - BROWN, A.G., 1963, Base-metal mineralization at Ballyvergin and Maghera, County Clare, Eire. (Abstract of unpublished M.Sc. dissertation, University of Leicester), Transactions of the Institution of Mining and Metallurgy, 78, B133
  - BROWN, A.G., 1987, Westport Talc Deposit., Annual Review 1987., ANDREW, C. and BRAND, S. (Compilers), Irish Association for Economic Geology, Dublin., p39-40
  - BROWN, C., WILLIAMS, B., 1985, A gravity and magnetic interpretation of the structure of the Irish Midlands and its relation to ore genesis., Journal of the Geological Society of London, 142, p1059-1075
  - BROWN, A.G., ROMER, D.M., 1981, Exploration and Mineralisation of the Carrickittle Prospect, Co. Limerick., Mineral exploration in Ireland, Progress and developments 1971-81., BROWN, A.G., Irish Association for Economic Geology, Folens, Dublin., 72-81
  - BROWN, A.G., ROMER, D.M., 1986, The geological setting and mineralization of the Carrickittle prospect, Co. Limerick., Geology and Genesis of mineral deposits in Ireland., ANDREW, C.J., CROWE, R.W.A., FINLAY, S. PENNELL, W.M. and PYNE, J.F., Dublin, Irish Association for Economic Geology., 457-460
  - BROWNE, M.L., REID, C.G., 1984, Mineral deposits map of Ireland. 1:1,000,000., Crowe, Schaffalitzky and Associates Ltd. And Environmental Resources Analysis Ltd., Dublin.,
  - BROWNRIGG, W.B., 1866, Note on part of the Leinster Coalfield, with a record of some fossils found therein., Journal of the Royal Geological Society of Ireland, 1, 145-146
  - BRUCK, P.M., 1977, Stream sediment base metal geochemistry of one-inch sheet 120 and 121., Geological Survey of Ireland Report Series RS 77/1, 15-23

- BRUCK, P.M., 1981, The regional lithostratigraphical setting of the Silvermines Zinc-lead and the Ballynoe Barite Deposits, Co. Tipperary., Mineral exploration in Ireland, Progress and developments 1971-81, BROWN, A.G., Irish Association for Economic Geology, Folens, Dublin., p162-170
- BRUCK, P.M., O'CONNOR, P.J., 1982, Relationships of hydrothermal phenomena within the Leinster Granite to crustal fractures delineated from Landsat Imagery., Photogrammetria, 37, 151-159
- BRUCK, P.M., COLTHRUST, R.J.J., FEELY, M., GARDINER, P.R.R., PENNY, S.R., REEVES, T.J., SHANNON, P.M., SMITH, D.G. and VANGUESTAINE, M., 1979, Southeast Ireland: Lower Palaeozoic stratigraphy and depositional history., The Caledonides of the British Isles - reviewed, HARRIS ET AL, Geological Society of London.,
- BRUCK, P.M., O'CONNOR, P.J., 1977, The Leinster Batholith, geology and geochemistry of the Northern Units., Geological Survey of Ireland Bulletin, 2, 107-141
- BRUCK, P.M., REEVES, T.J., 1977, Solid rock base metal geochemistry of the Leinster granite on one-inch Sheets 120-121., Geological Survey of Ireland Report Series., 77/1, 25-27
- BRUCK, P.M., O'CONNOR, P.J., 1980, Relationship of base metals in southeast Ireland to crustal fractures delineated from Landsat Imagery (abs).,
- BRUCK, P.M., O'CONNOR, P.J., 1980, Major transverse and other linears in the Leinster Granite., Geological Survey of Ireland Bulletin,
- BRUCK, P.M., 1985, The geology of the country between Slieve Aughty, the Silvermines-Devilsbit Mountains and Slieve Bloom, Central Ireland., Occasional Report Series RS 85/12., University College Cork., 60 p
- BRUTON, C., 1978, 'Authigenic' feldspars associated with layered zinc mineralization in the Tynagh and Navan lead-zinc deposits., Paper presented to Mineral Studies Group meeting, Dublin, 1978.,
- BUCHAN, P., 1858, The composition of the iron ores of the Connaught Coalfield., Journal of the Royal Dublin Society, 2, 1-27
- BUCKLEY, F., 1975, Geophysics 1960-1975., Irish Association for Economic Geology, Dublin., 4, 2-3
- BULLERWELL, W., 1954, A vertical force magnetic survey of the Coal-island district, Co. Tyrone., Bulletin of the Geological Survey of Great Britain, 6, 111, 3, 21-32
- BULLOCK, C., CLINCH, P., 2003, An economic cost benefit analysis of the resource and environmental survey of Ireland., NAMS 2003, Abstracts Volume, Dublin, Ireland: 1st September - 3rd September 2003., IGES-NAMS 2003 - Dublin, Ireland., 109-110
- BURKE, K.C., CUNNINGHAM, M.A. & GALLAGHER, M.J., 1964, Beryl in the Roses Granite, Northwest Ireland., Economic Geology, 59, 1539-1550
- BURKE, D., 1987, Why gold exploration in Ireland?, Ireland - A Golden Opportunity., Confederation of Irish Industry, Dublin.,
- BURTON, C., 1977, Productions and reserves of base metals in Ireland., Technology Ireland, September., 35-40
- BURTON, C., 1979, Authigenic feldspars associated with layered zinc mineralization in the Tynagh and Navan lead-zinc deposits (abstract only)., Journal of the Geological Society of London, 136, 512
- BURTON, C., 1990, The use of thiourea for the recovery of gold from oxidised copper waste dumps at Avoca, Co. Wicklow, The Irish Minerals Industry - A review of the decade, Abstracts volume and programme, Great Southern Hotel Galway, 21st - 23rd September 1990., Irish Association for Economic Geology,
- BUTLER, J.R., 1963, A report on elements in Irish copper ores., Ores and Metals: A report of the ancient Mining and Metallurgy Committee., Royal Anthropological Inst., 64 pp.
- BUTT, C.R.M., NICHOLAS, I., 1979, The identification of various types of geochemical stream sediment anomalies in Northern Ireland., Journal of Geochemical Exploration, 11, 13-32
- BYRNE, M., O'DWYER, S. (COMPILERS), 1994, Mineral deposits of Ireland. Geological Map scale 1:100 000., Crowe, Schaffalitzky and Associates and the Geological Survey of Ireland, Dublin.,
- BYRNE, F.N., 1963, Measurement of the uranium and thorium content of rocks., 1A, A343-364
- BYRNE, J., 1998, The gypsum industry - past, present and future., Institute of Quarrying Northern Ireland Branch and Irish Mining and Quarrying Society., Extractive Industry Ireland, 1998, 100
- CALLAHAN, W.H., 1964, Palaeophysiographic premises for prospecting for strata bound base metal mineral deposits in carbonate rocks.,
- CAMBRIDGE MINERAL RESOURCES., 2002, Diamond and gemstone exploration., The Irish Mining and Quarrying Society., Extractive Industry Ireland, 2002, 64-65
- CAMERON, D.E., ROMER, D.M., 1970, Dension copper-silver deposit at Aherlow, County Limerick., Transactions of the Canadian Institute of Mining and Metallurgy, 79 (London), B171-3
- CAMERON, I.B., CALVER, T. & HARRISON, E.A., 1977, Sources of aggregate in Northern Ireland., 2,
- CAPEWELL, J.G., 1957, The stratigraphy and structure of the County around Sneem, Co. Kerry., Proceedings of the Royal Irish Academy, 54B, 141-167
- CARBONI, V., WALSK, J.J., STEWART, D.R.A. and GUVEN, J.F., 2003, Timing and geometry of normal faults and associated structures at the Lisheen Zn/Pb deposit, Ireland-investigating their role in the transport and

trapping of:., Society for Geology Applied to Mineral Deposits Meeting, 7th biennial, Athens, Greece, Proceedings., p. 665-668

- CARR, D.D., ROONEY, L.F., 1983, Limestone and dolomite., *Industrial minerals and rocks.*, LEFEND, S.F., Society of Mining Engineers, New York., 833-868
- CARROLL, A.P., 1977, Future development of the Irish Mineral Industry. Part 1 - Exploration and Mining, Part 2 - Proposal for an Irish Smelter and Metals Industry., *Technology Ireland*, September 1977, 13-19
- CARROLL, A.P., 1971, The Irish Minerals Industry - a general review., *Technology Ireland*, 3, 7, 18-29
- CARTER, J.S., CAZALET, P.C.D., 1984, Hydrocarbon gases in rocks as pathfinders for mineral exploration., *Prospecting in areas of glaciated terrain 1984.*, Institution of Mining and Metallurgy., 1-10
- CARTER, J.S., WILBUR, D.G., 1981, The geological setting of the zinc mineralisation near Duncormick in the Wexford Permo-Carboniferous outlier., *Mineral exploration in Ireland, Progress and developments 1971-81.*, BROWN, A.G., Irish Association for Economic Geology Folens, Dublin., 92-96
- CARTER, J.S., WILBUR, D.G., 1982, The geological setting of zinc mineralisation near Duncormick in the Wexford Permo-Carboniferous outlier., *Mineral exploration in Ireland: progress and developments 1971-81.*, BROWN, A.G., PYNE, J.F., Irish Association for Economic Geology, Dublin., p.92-96
- CARVILLE, G., 2001, The Iron-works of Co. Laois., *Journal of the Mining Heritage Trust of Ireland*, 1, November 2001, 55-60
- CASSIDY, J., LOCKE, C.A., 1982, Geophysical and radiometric studies of the Northern Units of the Leinster Intrusion., *Geological Journal*, 17, p.311-322
- CAULFIELD, J.B.D., LeHURAY, A.P., DIXON, P.R., and RYE, D.M., 1985a, Lead and sulphur isotope studies Zn+/-Pb+/-Ba deposits in central Ireland and their constraints on models for the genesis of the Irish stratabound and stratiform ores., *Abstract Volume, Conference Stanford University, California (unpaginated).*, June 1985,
- CAULFIELD, J.B.D., DIXON, P.R., RYE, D.M. and LeHURAY, A.P., 1985b, Lead isotope studies and a model for the genesis of sediment-hosted deposits in Ireland., *Geological Society of America Abstracts with Programs*, 17, p. 540
- CAULFIELD, J.B.D., LeHURAY, A.P., DIXON, P.R., RYE, D.M., 1985c, Lead and Sulphur isotope studies of Zn/Pb/Ba Deposits in Central Ireland and their constraints on models for the genesis of the Irish stratabound and stratiform ores., *Irish Association for Economic Geology, Dublin., Annual Review*, 45-46
- CAULFIELD, J.B.D., LeHURAY, A.P. & RYE, D.M., 1986, A review of lead and sulphur isotopes investigations of Irish sediment-hosted base metal deposits, with new data from Keel, Ballinalack, Moyvoughly and Tatestown deposits., *Geology and genesis of mineral deposits in Ireland.*, ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., Dublin, Irish Association for Economic Geology., p. 591-616
- CAULFIELD, J.B.D., LeHURAY, A.P. and RYE, D.M., 1986, Isotope studies of sediment-hosted base-metal deposits. Part 1, New data from deposits in Co. Meath, Westmeath and Longford; Part 2, A review., *Geology and genesis of mineral deposits in Ireland.*, ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., Irish Association for Economic Geology, Dublin., This volume(taken from green book?),
- CAYEUX, L., LECORTE, P., 1936, Exploration of the Argina and Slieve Anierin Mineral Areas.,
- CAZALET, P.C.D., ROMER, D.M., 1989, Regional lithochemistry and discovery of gold in Co. Mayo, Ireland., *Transactions of the Institution of Mining and Metallurgy*, 98, B: Applied Earth Science, B67-73
- CAZALET, P.C.D., 1981, A review of geochemical exploration techniques 1971-81., *Mineral exploration in Ireland, Progress and developments 1971-81.*, BROWN, A.G., Irish Association for Economic Geology, Folens, Dublin., 148-156
- CAZALET, P.C.D., 1973, Notes on the interpretation of geochemical data in glaciated areas., *Prospecting in areas of glaciated terrain.*, JONES, M.J., Symposium report of the Institute of Mining and Metallurgy. Trondheim 1973., 25-36
- CHAPMAN, R.J., LEAKE, R.C., MOLES, N.R., EARLS, G., COOPER, C., HARRINGTON, K. & BERZINS, R., 2000, The application of microchemical analysis of alluvial gold grains to the understanding of complex local gold mineralization: A case study in the Irish and Scottish Caledonides., *Economic Geology*, 95, 1753-73
- CHAPMAN, R.J., LEAKE, R.C. & MOLES, N.R., 2000, The use of microchemical analysis of alluvial gold grains in mineral exploration: in Britain and Ireland., *Journal of Geochemical Exploration*, 71, 241-68
- CHESTER, S., BURNS, N., 2001, The mines of Baravore, Glenmalure, Co. Wicklow., *Journal of the Mining Heritage Trust of Ireland*, 1, November 2001, 67-76
- CLARK, G.R., 1965, Northgate's Tynagh Project, *Exploration and Geology.*, *Canadian Mining Journal*, 86, 12, 56-61
- CLARKE, G., 1987, A weekend in Westport: IAEG focuses on industrial minerals., *Industrial Minerals*, August 1987, 75-77
- CLIFF, D.C., WOLFENDEN, M., 1992, The Lack gold deposit, Northern Ireland., *The Irish Minerals Industry 1980-1990.*, BOWDEN, A.A., EARLS, G., O'CONNOR, P.G. and PYNE, J.F., Irish Association for Economic Geology., 65-76

- CLIFFORD, J., 2003, Mineral Exploration in Ireland: Case Histories - Successes and other experiences., IGES 2003, Abstracts Volume, Dublin, Ireland: 29th August - 3rd September 2003., IGES-NAMS 2003 - Dublin, Ireland., 31-32
- CLIFFORD, J.A., 1984, Geochemistry of Lower Carboniferous sediments in Ireland, its relationships to base metal deposits and its applicability in the search for concealed deposits., Symposium on Geochemical Prospecting EEC-CREST Project, January 1984, Brussels.,
- CLIFFORD, G.R., 1975, The mineral resources potential of the midlands region., June 26th, 1975,
- CLIFFORD, J.A., ET AL., 1990, 1980-1990: A decade of gold exploration., Minerals, materials and industry: Papers presented at the Fourteenth Congress of the Council of Mining and Metallurgical Institutions, organized by the Institution of Mining and Metallurgy and held in Edinburgh, Scotland, from 2 to 6 July, 1990., Institution of Mining and Metallurgy, 323-334
- CLIFFORD, J.A., RYAN, P. & KUCHA, H., 1986, A review of the geological setting of the Tynagh orebody, Co. Galway., Geology and genesis of mineral deposits in Ireland: Dublin., ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., Irish Association for Economic Geology, p. 419-439
- CLIFFORD, J.A., EARLS, G., MELDRUM, A.H. & MOORE, N., 1992, Gold in the Sperrin Mountains, Northern Ireland: an exploration case history., The Irish Minerals Industry 1980-1990., BOWDEN, A.A., EARLS, G., O'CONNOR, P.G. and PYNE, J.F., Irish Association for Economic Geology., 77-88
- CLIFFORD, J.A., 1984, Gold mineralisation in Co. Tyrone, (abs)., Irish Association for Economic Geology 14th - 16th September 1984. (Dublin)., Irish Association for Economic Geology.,
- CLIFFORD, J., 1987, Sillimanite, Co. Donegal., GSI Industrial Minerals Newsletter, 1, p2
- CLIFFORD, J.A., 1986, Sperrins Gold., Irish Association for Economic Geology, Dublin., Annual Review, p.28
- CLIFFORD, J.A., MELDRUM, A.H., PARKER, R.T.G. & EARLS, G., 1990, A decade of gold exploration in Northern Ireland and Scotland., Transactions of the Institution of Mining and Metallurgy, 99, B: Applied Earth Science, B133-38
- CLIFFORD, J.A., KUCHA, H. and MELDRUM, A.H., 1988, Litho-geochemistry; its applicability to base-metal exploration in a carbonate environment., Mineral deposits within the European Community., BOISSONNAS, J. and OMENETTO, P., pp. 391-405
- CLIFFORD, J.A., 2005, Mineral Exploration in Ireland: Case Histories - Successes and other experiences., The Mineral Deposits Studies Group Annual Winter Conference 4th - 6th January 2005, The Ulster Museum, Belfast: Mineral Deposits in the 21st Century., The Mineral Deposits Studies Group.,
- CLIFFORD, J.A., 1986, A note on gold mineralization in Co. Tyrone., Geology and genesis of mineral deposits in Ireland., ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J.F., Irish Association for Economic Geology, Dublin., p45-7
- COE, K., 1966, Intrusive tuffs of West Cork, Ireland., Quarterly Journal of the Geological Society of London., 122, 1-28
- COGHLAN, H.H., 1963, A note on Irish copper ores and metals., Ores and Metals., Report of the Ancient Anthropological Institute., 1-33
- COHEN, J.M., 1981, The nature of overburden in relation to geochemical prospecting problems., Irish Association for Economic Geology, Dublin., 20, Newsletter, p.5
- COLE, G.A.J., 1907, Note on the Ballycastle Coalfield, Co. Antrim., Geological Magazine, 5, 85
- COLE, G.A.J., WILKINSON, S.B., M'HENRY, A., KILROE, J.R., SEYMOUR, H.J., MOSS, C.E. and HAIGH, W.D., 1912, The interbasaltic rocks (iron ores and bauxites) of northeast Ireland., Memoir of the Geological Survey of Ireland, Dublin.,
- COLE, G.A.J., 1893, The beauty and use of Irish Building stones., Irish Naturalists Journal, 1, June-july,
- COLE, G.A.J., 1922, Mines and mineral occurrence in Ireland., Memoir of the Geological Survey of Ireland: Mineral Resources., 156pp
- COLE, G.A.J., 1913, Royal Commission of coal supplies, Final Report, Part VIII (Ireland).,
- COLLIER, D., WALSH, J., 2002, The role basement may play in the formation of mineral deposits., Irish Association for Economic Geology Weekend Course 2002 (Westport, Co. Mayo, Ireland) Abstracts Volume: Basement Controls on Mineralization in the Irish Orefield., Irish Association for Economic Geology., 59
- COLLIER, D.W., CRITCHLEY, M.F., DOLAN, J.M., MacDONAILL, C., MURPHY, C.J., PHILLIPS, W.E.A. and SANDERSON, D.J., 1986, Structural, remote sensing and multivariate correlation methods as aids to mineral exploration, central Ireland., Special Publications, Directorate General 12, European Commission.,
- COLLIER, D., BEACH, A., ASHTON, J., GERAGHTY, J., HOLDSTOCK, M., O'KEEFFE, W.O., PHILCOX, M. and WALKER, N., 2005, Structural geology and tectonic setting of the Navan Zn-Pb orebody - Inversion of a degraded footwall-uplift fault block?, The Mineral Deposits Studies Group Annual Winter Conference 4th - 6th January 2005, The Ulster Museum, Belfast: Mineral Deposits in the 21st Century., The Mineral Deposits Studies Group.,
- COLLIER, D., PHILLIPS, W.E.A., 1982, Correlation of geological, geochemical and geophysical data with satellite imagery: west-central Ireland., EEC Contract No. MMP-159-81 EIR (H), Final Report., p. 312-318

- COLMAN, T.B., 1991, Metalliferous mineral exploration opportunities in Britain (and Northern Ireland), Transactions of the Institution of Mining and Metallurgy, 100, B33-42
- CONNOLLY, P., 1983, Tara Mines Ltd., Navan's zinc-lead mine eleven years on., 36, 1, 23-25
- COOMER, P.G., ROBINSON, B.W., 1976, Sulphur and sulphate-oxygen isotopes and the origin of the Silvermines deposits, Ireland., Mineralium Deposita, 11, p. 155-169
- COREY, I.R., 1959, The Avoca enterprise - 4. Milling Practice., Mine and Quarry Engineering, 25, 426-471
- COUGHLAN, H.E., 1963, A note on Irish copper ores and metals., Ores and Metals: A report of the ancient Mining and Metallurgy Committee., Royal Anthropological Inst., 64pp.
- COUGHLIN, W., 1958, Ireland Prepares for A Renaissance in Mining., Engineering and Mining Journal, 159, 5, 82-84
- COWLEY, A., McDERMOT, P., SPURGEON, P., WHITTY, S., LEAMY, K., TABLOT, J. and LOWTHER, J.M., 2005, Investigation of the mineral controls in the K Orebody, Galmoy Mine, Ireland., The Mineral Deposits Studies Group Annual Winter Conference 4th - 6th January 2005, The Ulster Museum, Belfast: Mineral Deposits in the 21st Century., The Mineral Deposits Studies Group.,
- COWMAN, D., REILLY, T.A., 1988, The abandoned mines of West Carbery., Geological Survey of Ireland, 43pp
- COWMAN, D., 2001, The metal mines of Dublin City and County., Journal of the Mining Heritage Trust of Ireland, 1, November 2001, 61-66
- COWMAN, D., 2001, The mining boom of 1824 - 1825: Part 1., Journal of the Mining Heritage Trust of Ireland, 1, November 2001, 49-54
- COWMAN, D., 1992, Silvermines - A unique mining history., Irish Association for Economic Geology, Dublin., Annual Review, 81-82
- COWMAN, D., 1988, The Silvermines: sporadic working 1289-1874., Tipperary Historical Journal, 1, 96-115
- COWMAN, D., 1994, The mining community at Avoca 1780 - 1880., Wicklow history and society., HANNIGAN, K. and NOLAN, W., Geography Press, Kennington Road, Dublin 6., 761-788
- COX, W., 2005, Finding Irish gold: Past, present and future., The Irish Mining and Quarrying Society., Extractive Industry Ireland, 2005, 146-148
- COX, r.c., 1980, The Engineering Career of Richard Griffith., Richard Griffith 1748-1898, HERRIES DAVIES, G.L., MOLLAN, R.C., Royal Dublin Society, Historical Studies in Irish Science and Technology, 1, P.33-56
- COY, N., 1966, Avoca's Industrial Age., Technology Ireland, June 1996, p25-27
- CREIGHTON, J.R., 1990, Exploration focus - Abbeytown., Geological Survey of Ireland, 90/1, Pamphlet Series, 4pp
- CREIGHTON, J.R., 1988, Exploration focus - Ballyvergin., Geological Survey of Ireland, 88/2, Pamphlet Series, 4pp
- CRITCHLEY, M.F., PHILLIP, W.E. and COLLER, D.W., 1983, Correlation of geological, geochemical and geophysical data with satellite imagery in Central Ireland., Mineral Deposits Studies Group 1983 Conference Volume, Manchester University.,
- CRITCHLEY, M.F., COLLER, D.W., PHILLIPS, W.E.A., ROWLANDS, A.S., DALY, C.J., 1986, Structural, remote sensing and multivariate correlation methods as aids to mineral exploration., First European Workshop on Remote Sensing in Mineral Exploration, CEC Report 10511, 33-84
- CRITCHLEY, M.F., COLLER, D.M., PHILLIPS, W.E.A., ROWLAND, A.S. and DALY, C.J., 1986, Structural, remote sensing and multivariate correlation methods as aids to mineral exploration., First European workshop on remote sensing in mineral exploration, Report EUR 10511 EN-FR., Commission of the European Communities, Brussels., 33-84
- CRONSHAW, H.B., 1923, The Connemara serpentine rocks., Geological Magazine, 60, 467-471
- CROW, M.J., MAX, M.D. & SUTTON, J.S., 1974, Reply to discussion of the structure and stratigraphy of the metamorphic rocks in part of NW Co. Mayo, Ireland., 130, 394-396
- CROWE, R.W.A., 1986, The stratigraphic and structural setting of Zn-Ba-Pb mineralization at Newtown Cashel, Co. Longford., Geology and genesis of mineral deposits in Ireland., ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., Irish Association for Economic Geology, Dublin., 331-339
- CRUISE, M.D., BOYCE, A.J. & FALLICK, A.E., 1999, Iron oxide alteration associated with the carbonate-hosted Tynagh and Crinkill base-metal deposits, Ireland: evidence of the involvement of dissolved atmospheric oxygen., Mineral deposits: Processes to processing., STANLEY, C.J. ET. AL., Proc. Joint SGA-IAGOD Symposium, London. A.A. Balkema, Rotterdam., 2, pp 833-836
- CRUISE, M.D., 1996, Replacement origin of Crinkill ironstone; implications for genetic models of base metal mineralization, Central Ireland., Exploration and Mineral Geology, 5, 241-249
- CRUISE, R.J., 1873, Analyses of the Leitrim Coal, with remarks on the coal areas of the district., Journal of the Royal Geological Society of Ireland, 3, 144-5
- CRUISE, M.D., FARRELL, L.P.C., 1992, Exploration Focus: Aherlow., Exploration and Minerals Division, Pamphlet Series, Geological Survey of Ireland, 92/1, 4pp

- CRUISE, M.D., FARRELL, L.P.C., 1992, Exploration Focus: Clontibert., Exploration and Minerals Division, Pamphlet Series, Geological Survey of Ireland, 92/2, 4pp
- CULLEN, K.T., 1991, Groundwater, mineral exploration and mining., Irish Association for Economic Geology, Dublin., Annual Review, 41-42
- CUMMINS, W.A., 1954, An Arenig Volcanic series near Charlestown, Co. Mayo., Geological Magazine, 91, 102-104
- CUMMINS, W.A., 1954, An Arenig Volcanic series near Charlestown, Co. Mayo., Geological Magazine, 9, 102-104
- CUNNINGHAM, DAVIS, G.R. & MEYER, W.T., 1972, Trace identification of mercury compounds as a guide to sulphide mineralisation at Keel, Eire., 59-69
- CUNNINGHAM, M.A., 1979, Eire - Mining Annual review for 1978., Mining Journal, London,
- CUNNINGHAM, M.A., 1978, Eire - Mining Annual review for 1977., Mining Journal, London, 539-540
- CUNNINGHAM, M.A., 1977, Eire - Mining Annual review for 1976., Mining Journal, London, 509-510
- CUNNINGHAM, M.A., 1976, Eire - Mining Annual review for 1975., Mining Journal, London, 516-517
- CUNNINGHAM, M.A., 1973, History of Mining in Ireland., Mining Ireland, 3, 1973, 18-22
- CUNNINGHAM, D., 1999, The Lisheen Mine., North Atlantic Minerals Symposium Extended Abstracts Volume, 19th-22nd September 1999. Dublin, Ireland., STANLEY, G.A., Geological Survey of Ireland., 49-52
- CUNNINGHAM, M.A., 1975, Eire - Mining Annual review for 1974., Mining Journal, London, 484-5
- CUNNINGHAM, M.A., 1979, Eire - Mining Annual Review for ' 78., Mining Journal, 7,
- DALLAS, W.G., 1984, Experiences of environmental impact assessment procedures in Ireland., Planning and Ecology, ROBERTS, R.D., ROBERTS, T.M., London, Chapman and Hall, 389-395
- DALLAS, B., 2003, Quarrying - Environmental Impact statements and people., The Irish Mining and Quarrying Society., Extractive Industry Ireland, 2003, 57-59
- DALLAS, W.G., 1992, Environmental and planning trends in the 1980s and a trend prediction for the 1990s., The Minerals Industry 1980-1990., BOWDEN, A.A., EARLS, G., O'CONNOR, P.G. and PYNE, J.F., Irish Association for Economic Geology., 7-13
- DALLAS, W.G., DHONAU, N.B., 1991, Mining and the Environment., GSI Industrial Minerals Newsletter, Jan. 1991,
- DALLAS, W.G., 1977, Environmental harmony - an objective in mine planning and development., Canadian Institute of Mining Bulletin, 69,
- DALLAS, B., 1998, Opening a new quarry: Environmental and planning background., Institute of Quarrying Northern Ireland Branch and Irish Mining and Quarrying Society., Extractive Industry Ireland, 1998, 129-131
- DALY, J.S., VAN DEN BURG, R. and FLOWERDEW, M.J., 2002, Precambrian and lower crustal geology of Ireland in relation to Carboniferous-hosted base metal mineralization., Irish Association for Economic Geology Weekend Course 2002 (Westport, Co. Mayo, Ireland) Abstracts Volume: Basement Controls on Mineralization in the Irish Orefield., Irish Association for Economic Geology., 8-15
- DALY, E.P., 1994, Groundwater resources of the More River Basin., Geological Survey of Ireland Report Series RS94/1 (Groundwater), Geological Survey of Ireland.,
- DALY, E.P., 1991b, Mining, Quarrying, Groundwater and Environmental Impact Assessment., Proceedings of the Irish Association of Hydrogeology 11th Annual Groundwater Seminar, Portlaoise., 91pp
- DALY, E.P., 1991a, The effect of exploration and mining/quarrying on groundwater movement and quality., Irish Association for Economic Geology, Dublin., Annual Review, 48-54
- DAVIDSON, C.F., ATKINSON, D., 1953, The occurrence of uranium in phosphate rocks., International Geology Conference section 6.,
- DAVIES, G.L., 1974, First official geological survey in the British Isles., Nature, 249, 407
- DAVIES, G.L., 1957, The town and coalfield of Ballycastle, Co. Antrim., Irish Geography, 3, 206-215
- DAVIES, G.L., 1965, The Geological Society of Dublin and the Royal Geological Society of Ireland 1831-1890., *Hermathena*, 100, 66-76
- DAVIS, G.R., 1971, Research objectives for Irish base metal ore deposits., Genesis of Base Metal Sulphides in Ireland. Abstracts of lectures presented to the Symposium Meeting of the Irish Geological Association, Galway, Ireland, 5-7 November 1971.,
- DAVITT, T., DARDIS, O., 2003, Airborne Geophysics in Ireland - Techniques and benefits to the extractive industry., The Irish Mining and Quarrying Society., Extractive Industry Ireland, 2003, 30-31
- DE BARRA, C., 1998, The industrial diamond industry., Institute of Quarrying Northern Ireland Branch and Irish Mining and Quarrying Society., Extractive Industry Ireland, 1998, 137
- DE BRIT, T.J., 1989, Timing structural events and base metal emplacement using extension veins and cements in the Carboniferous of North Central Ireland., Irish Journal of Earth Sciences., 10, 13-31
- DEADY, J., DORAN, E., 1972, Prehistoric copper mines, Mount Gabriel, Co. Cork., Journal of the Cork History and Archaeology Society., 77, 25-27

- DeBRITT, T.J., 1989, Recent diagenetic and structural research findings relevant to Irish zinc lead exploration., Irish Association for Economic Geology, Dublin., Annual Review, 101-103
- DEENY, D.E., 1982, Further evidence for Devonian-Carboniferous rifting in Central Ireland., 61, 243-252
- DEENY, D.E., 1981, A postulated Lower Carboniferous Irish rift and possible metallogenic consequences., Mineral exploration in Ireland, Progress and developments 1971-81, BROWN, A.G., Irish Association for Economic Geology, Folens, Dublin., 157-160
- DEENY, D.E., 1985, The Central Irish Waulsortian mudbank complex and associated sulphide deposits: manifestation of a subsidence-related catastrophic chemical event?, Corrib Printers, Galway 1985, 8pp
- DEENY, D.E., 1981, An Irish Carboniferous metallogenic model, (Technical Notes)., Transactions of the Institution of Mining and Metallurgy, 90, Section B, pp. B183-185
- DEENY, D.E., 1981, An Irish metallogenic model., Institution of Mining and Metallurgy, 90, B: Applied Earth Science,
- DEENY, D.E., 1983, Formation of fossil hydrothermal chimneys and mounds from the Silvermines., Contributed remarks on Boyce et al (1983)., Transactions of the Institution of Mining and Metallurgy, 92, B103-104
- DEENY, D.E., 1984, Downward-excavating hydrothermal convective cells; their surface expression in an Irish Carboniferous metallogenic model (The Central Irish Waulsortian mudbank complex - a sedimentary exhalative facies phenomenon?)., Abstracts Volume, European Dinantian Environments Symposium, 1st meeting 1984, Department of Earth Sciences, Open University of United Kingdom., 148-151
- DEENY, D.E., 1985a, Central Irish Sulphur isotope data in the light of the rift geological - metallogenic model., Geologie en Mijnbouw, 64, 217-220
- DEENY, D.E., 1985c, Structure, stratigraphy, silica and sulphides - towards a unified view?, Abstracts Vol., Mineral Deposits Studies Group, Strathclyde (Glasgow) symposium, 14., 14,
- DEENY, D.E., 1986, Reply to Boyce's comment on Deeny 1985a., Geologie en Mijnbouw, 65, 76-78
- DEENY, D.E., 1987, Central Irish geology, metallogeny: a Lower Carboniferous rifting-related exhalative catastrophe?, Mineralium Deposita, 22, 116-123
- DENNISON, J.R., VARVILL, W.W., 1952, Prospecting with the diamond drill for lead-zinc ores in the British Isles., Transactions of the Institution of Mining and Metallurgy, 62, B1-21
- DERHAM, J.M., FEELY, M., 1988, A K-feldspar breccia from the Mo-Cu stockwork deposit in the Galway granite, west of Ireland., Journal of the Geological Society of London, 145, pp 661-667
- DERHAM, J.M., 1986, Structural control of sulphide mineralization at Mace Head, Co. Galway., Geology and genesis of mineral deposits in Ireland., ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J.F., Irish Association for Economic Geology., 187-194
- DERRY, D.R., 1966, The Northgate base metals deposit at Tynagh, Ireland - a reply., Economic Geology, 61, p. 1450-1451
- DERRY, D.R., 1975, Ore deposits; their origin, accumulation and the methods used in their discovery., Natural Resources Discovery and Development. Symposium meeting of the Irish Association for Economic Geology, the Irish Geological Association and the Irish Mining and Quarrying Society, Dublin.,
- DERRY, D.R., CLARK, G.R. and GILLATT, N., 1966, Discussions: The Northgate base metal deposits at Tynagh, Co. Galway., Economic Geology, 61, pp 1449-51
- DERRY, D.R., 1979, Geology and ore deposits., Geophysics and Geochemistry in the search for Metallic ores., HOOD, P.J., Geological Association of Canada, 31, Economic Geology Report, 1-6
- DERRY, D.R., 1968, Gortdrum. Symposium, Ireland as a metallogenic province (Abstract)., Irish Geological Association,
- DERRY, D.R., CLARKE, G.R. & GILLATT, N., 1965, The Northgate base metal deposit at Tynagh, Co. Galway, Ireland., Economic Geology, 60, 1218-1237
- DERRY, D.R., CLARKE, G.R. & GILLATT, N., 1963, The Northgate ore-bodies in Ireland - a preliminary review of the geology (abstract)., Canadian Mining Journal, 84, 53
- DHONAU, N.B., 1984, Republic of Ireland., Mining Annual Review - 1984, Mining Journal, 1984, 449-450
- DHONAU, N.B., 1986, Republic of Ireland., Mining Annual Review - 1986, Mining Journal, 1986, 486-487
- DHONAU, N.B., 1988, Republic of Ireland., Mining Annual Review - 1988, Mining Journal, 1988, 459-461
- DHONAU, N.B., 2000, Republic of Ireland., Mining Annual Review - 2000, Mining Journal, 2000,
- DHONAU, N.B., 1990, Republic of Ireland., Mining Annual Review - 1990, Mining Journal, 1990, 177-178
- DHONAU, N.B., 1985, Republic of Ireland., Mining Annual Review - 1985, Mining Journal,
- DHONAU, B., BRESLIN, B., 1999, The Regulator's Tale: Recent experiences with Irish mining leases and licences. What policy issues have arisen?, North Atlantic Minerals Symposium Extended Abstracts Volume, 19th-22nd September 1999. Dublin, Ireland., STANLEY, G.A., Geological Survey of Ireland., 35-40
- DHONAU, B., 2001, Irish metal mining: Meeting the challenge of sustainable development., North Atlantic Minerals Symposium Extended Abstracts Volume, May 27-30, 2001., Geological Survey of Ireland., 17-22
- DHONAU, B., 2002, Meeting the challenges., The Irish Mining and Quarrying Society., Extractive Industry Ireland, 2002, 51-57

- DHONAU, N.B., 1989, Republic of Ireland., Mining Annual Review - 1989, Mining Journal, 1989, A178-A179
- DHONAU, N.B., 1988, Republic of Ireland., Mining Annual Review - 1988, Mining Journal, 459-461
- DHONAU, N.B., 1991a, Mining and the Environment: the role of the Department of Energy., Irish Association for Economic Geology, Dublin., Annual Review, 58-61
- DHONAU, N.B., 1996, Republic of Ireland., Mining Annual Review - 1996, Mining Journal, 1996, 194-195
- DHONAU, N.B., 1992, Republic of Ireland, Mining Annual Review, 159-160
- DHONAU, N.B., 1997, Republic of Ireland., Mining Annual Review - 1997, Mining Journal, 1997, 192-193
- DHONAU, N.B., 1998, Republic of Ireland., Mining Annual Review - 1998, Mining Journal, 1998, 213
- DHONAU, N.B., 1999, Republic of Ireland., Mining Annual Review - 1999, Mining Journal, 1999,
- DHONAU, N.B., 1991, Republic of Ireland., Mining Annual Review - 1991, Mining Journal,
- DHONAU, N.B., 1987, Republic of Ireland., Mining Annual Review - 1987, Mining Journal,
- DHONAU, N.B., WRIGHT, G.R., 1998, Zinc-Lead Mines in Ireland: Approaches to groundwater control and protection., Papers to be presented at the International Mine Water Association Symposium; Johannesburg, September 1998.,
- DHONAU, N.B., 2001, Republic of Ireland., Mining Annual Review - 2001, Mining Journal, 2001,
- DHONAU, N.B., 1991b, Mining and the Environment: the role of the Department of Energy., Abstracts of the First Irish Environmental Researcher's Colloquium, 30.,
- DIXON, O.A., 1972, Lower Carboniferous rocks between the Curlew and Ox Mountains northwestern Ireland.,
- DIXON, P.R., LeHURAY, A.P. and RYE, D.M., 1986, An isotopic and textural study of Pb-Zn mineralization around the Kildare Inlier, Co. Kildare, Ireland., Geological Society of America Abstracts with Programs, 18, 6, 670
- DIXON, P.R., RYE, D.M., 1991, Fluid flow connections to basement rocks below sedimentary basins: evidence from the base metal deposits in Ireland., Geophysical Research Letters, 18, 943-946
- DIXON, P.R., LeHURAY, A.P. & RYE, D.M., 1990, Basement geology and tectonic evolution of Ireland as deduced from Pb isotopes., Journal of the Geological Society of London, 147, 121-132
- DIXON, P.R., 1987, Lead and sulphur isotopic results from the Kildare Inlier base-metal deposits., Irish Association for Economic Geology, Dublin., Annual Review, p50-52
- DODDS, J.E., DALY, E.P. and CULLEN, K.T., 1994, Relationships between Mining and Ground Water within dolomites of Ireland., Proceedings of 5th IMWWA Congress, Nottingham.,
- DONOVAN, P.R., JAMES, C.H., 1967, Geochemical dispersion in glacial overburden over the Tynagh (Northgate) base metal deposits, West Central Eire.,
- DOUGHTY, P.S., CLARKE, A.M. & JONES, G.C., 1982, A platinum nugget found in Northern Ireland., Irish Naturalists Journal, 20, 11, 490-491
- DOUGLAS, J.A., 1909, The carboniferous limestone of Co. Clare (Ireland)., Quarterly Journal of the Geological Society of London., 65, 538-586
- DOWNES, K.M.J., 1978, Uranium content of some volcanic rocks of the east Avoca-Ballard mineralised belt Co. Wicklow. Ireland., Scientific Proceedings of the Royal Dublin Society, 6, 89-93
- DOWNES, K.M.J., 1977, Exploration in Ireland., Technology Ireland, 29-32
- DOWNES, K.M.J., PLATT, J.W., 1978, The Avoca - Ballard mineralized belt, Co. Wicklow., Journal of Earth Science, Royal Dublin Society, 1, 121-33
- DOWNING, D.T., ASHTON, J.H., 1985, Geology of Navan orebody., Transactions of the Institution of Mining and Metallurgy, 94, A, p. 3-12
- DOYLE, E., 1991, The Geology of the Galmoy Deposits., Minerals Industry International, 1001, 7, 16-17
- DOYLE, E., 2001, Aggregate deposits in Ireland., North Atlantic Minerals Symposium Extended Abstracts Volume, May 27-30, 2001., Geological Survey of Ireland., 28-30
- DOYLE, E., GALLAGHER, V., 1999, Locating aggregate sources in Ireland - Aggregate potential mapping, an example from the East of Ireland., North Atlantic Minerals Symposium Extended Abstracts Volume, 19th-22nd September 1999. Dublin, Ireland., STANLEY, G.A., Geological Survey of Ireland., 61-64
- DOYLE, E., BOWDEN, A.A., JONES, G.V. & STANLEY, G.A., 1992, The geology of the Galmoy zinc-lead deposits, Co. Kilkenny., The Irish Minerals industry 1980-1990., BOWDEN, A.A., EARLS, G., O'CONNOR, P.G. and PYNE, J.F., Irish Association for Economic Geology, Folens, Dublin., p. 211-225
- DOYLE, E., BOWDEN, A.A., 1995, Field guide to the Galmoy zinc-lead deposits, Co. Kilkenny., Irish carbonate-hosted Zn-Pb deposits. (Guidebook Series), ANDERSON, I.K., ASHTON, J.H., EARLS, G., HITZMAN, M.W. and TEAR, S., Society of Economic Geologists., 21, 139-145
- DOYLE, J.B., 1853, Notes on the Saltmines of Duncrue., Journal of the Geological society of Dublin, 5,
- DUANE, M.J., ALLSOPP, H.L., WELKE, M.J., 1988, U-Pb isotope studies on contrasted low temperature sediment hosted uranium deposits: penconcordant Karoo-type (Permian) and carbonate-hosted (Carboniferous) deposits in Ireland, Geocongress 1986, Extended Abstracts, Geological Society of South Africa., 413-16
- DUANE, M.J., WELKE, M.J., ALLSOPP, H.L., 1986, U-Pb age for some base metal sulphide deposits in Ireland: genetic implications for Mississippi Valley Type mineralisation., Geology, 14/6, 477-480



- DUANE, M.J., 1988, Genesis, mineralogy and geochemistry of uranium in the Gortdrum copper deposit, Ireland, *Mineralium Deposita*, 23, 50-57
- DUNHAM, K.C., 1966, Role of juvenile solutions, connate waters and evaporitic brines in the genesis of Lead-Zinc-Fluorine-Barium deposits., *Transactions of the Institution of Mining and Metallurgy*, 75, B, 226-9
- EARLS, G., HUTTON, D., WILKINSON, J., JOHNSTON, D., PARNELL, J., MOLES, N., CAREY, P., BOYCE, A., FALLICK, A., BOLAND, M., FINLAY, S., PHELAN, G. and LEGG, I., 1997, The gold metallogeny of the Dalradian metasediments of the Sperrin Mountains, Northern Ireland., *Irish Association for Economic Geology, Annual Review 1997.*, pp. 41-49
- EARLS, G., 1994, The Lisheen Zn-Pb deposit., *Mining Magazine*, July 1994, p. 6-8
- EARLS, G., CLIFFORD, J.A., CLIFFORD, J.A. & MELDRUM, A.H., 1989, Curraghinalt Gold Deposit, Co. Tyrone, Northern Ireland., *Transactions of the Institution of Mining and Metallurgy*, 98, B: Applied Earth Science, B50-51
- EARLS, G., HUTTON, D.W.H., McCAFFREY, K., WILKINSON, J., PARNELL, J., MOLES, N., CAREY, P., FALLICK, A., BOLAND, M. and LEGG, I., 1996, The metallogeny of the Curraghinalt Gold Deposit, Co. Tyrone, Northern Ireland., *Mineralization in the Caledonides (abstracts): Institution of Mining and Metallurgy Conference, June 1996, Sdinburgy, Scotland.*,
- EARLS, G., HUTTON, D.H.W., WILKINSON, J.J., MOLES, N.R., PARNELL, J., FALLICK, A.E. & BOYCE, A.J., 1996, The gold metallogeny of northwest Northern Ireland., *The Geological Survey of Northern Ireland Technical Report GSNI/96/6.*, (2 Volumes),
- EL SHAZLY, E.M., WEBB, J.S. and WILLIAMS, D.W., 1957, Trace elements in sphalerite, galena and associated minerals from the British Isles., *Transactions of the Institution of Mining and Metallurgy*, 66, p. 241-271
- ELDER, J.W., 1976, Model of hydrothermal ore genesis., *Volcanism and ore genesis.*, Institution of Mining and Metallurgy., 4-13
- ELMES, J.D., FUSCIARDI, L.P. & GUVEN, J.F., 2000, Geology of the Lisheen zinc/lead deposit: first impressions., *Europe's base metal deposits (abs)*, Dublin, *Irish Association for Economic Geology.*, 3 p.
- ELSDON, R., KENNAN, P.S., 1982, Age of sulphide deposits on the margin of the Leinster Granite, Ireland., *Mineralization associated with acid magmatism.*, EVANS, A.M., John Wiley, 85-89
- EMO, G.T., 1986, Some considerations regarding the styles of mineralisations at Harberton Bridge, Co. Kildare., *Geology and genesis of mineral deposits in Ireland: Dublin.*, ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., *Irish Association for Economic Geology*, p. 461-470
- EMO, G.T., GRENNAN, E.F., 1981, A review of mineralisation in the Old Red Sandstone and its significance to Irish exploration., *Mineral exploration in Ireland, Progress and developments 1971-81*, BROWN, A.G., *Irish Association for Economic Geology, Folens, Dublin.*, 27-34
- ENRIGHT, D., 1994, Planning permissions and environmental impact assessments - the issues involved., *The Extractive Industry and the Environment in Ireland, Britain and the rest of the EC.*, GARDINER, P.R.R., *The Irish Mining and Quarrying Society*, p.51-56
- EVANS, A.M., 1982, Mineralization in Ireland - Some Unanswered Questions, *Mineralium Deposita*, 17, 437-438
- EVANS, A.M., 1976, Genesis of Irish base-metal deposits., *Handbook of stratabound and stratiform ore deposits (Regional studies).*, Amsterdam: Elsevier, 1976., 5,
- EVANS, A.M., MAROOF, S.I., 1976, Basement controls on mineralisation in the British Isles., *Mining Magazine*, 134, 402-411
- EVERETT, C.E., WILKINSON, J.J. and RYE, D.M., 1997, (Abstract) Brine infiltration of Lower Palaeozoic rocks beneath the Navan deposit, Ireland: implications for the genesis of Irish-type Zn-Pb mineralization., *Geological Society of America Abstracts with Programs*, 29, p. A-208
- EVERETT, C.E., WILKINSON, J.J., 2000, What makes an orebody? A comparison of fluid inclusions and sulphur isotope data from prospects and deposits in the Irish Zn-Pb ore field (abs)., *Geological Society of America Abstracts with Programs*, 32, 7, p. A-282
- EVERETT, C.E., RYE, D.M., ELLAM, R.M., BOYCE, A.J., FALLICK, A.E. & WILKINSON, J.J., 1999a, A lead isotope investigation of the Old Red Sandstone of the Irish Midlands Basin: implications for the source of metals for Irish carbonate-hosted Zn-Pb mineralization., *Geological Society of America Abstracts with Programs*,
- EVERETT, C.E., 2002, Lower Carboniferous Irish-type deposits: The lead isotopic evidence for direct derivation of metals from the basement., *Irish Association for Economic Geology Weekend Course 2002 (Westport, Co. Mayo, Ireland) Abstracts Volume: Basement Controls on Mineralization in the Irish Orefield.*, *Irish Association for Economic Geology.*, 70-74
- EVERETT, C.E., WILKINSON, J.J. & BOYCE, A.J., 1999a, Fluid flow and mineralization in the Irish Orefield (abs)., *Geological Society of America Abstracts with Programs*, 31, p. A162

- EVERETT, C.E., WILKINSON, J.J., 2001, Blood from a stone: preliminary fluid inclusion results from the Navan Zn-Pb deposit, Ireland., Proc. Abstr. Vol, Mineral Deposits Studies Group AGM, Durham (unpaginated),
- EVERETT, C.E., WILKINSON, J.J., BOYCE, A.J., ELLAM, R.M., FALLICK, A.E., GLEESON, S.A. & BLAKEMAN, R., 1999b, The genesis of Irish-type Zn-Pb deposits: characterisation and origin of the principal ore fluid., Mineral deposits: Processes to processing., STANLEY, C.J. ET. AL., Proc. Joint SGA-IAGOD Symposium, London. A.A. Balkema, Rotterdam.,
- EVERETT, C.E., RYE, D.M. & DIXON, P.R., 1996, Further evidence for the involvement of deeply circulated fluids in the genesis of Irish base metal deposits., Geological Society of America Abstracts with Programs, 28, A210
- EVERETT, C.E., WILKINSON, J.J., BOYCE, A.J. & GLEESON, S.A., 2001, The role of bittern brines and fluid mixing in the genesis of the Navan Zn-Pb deposit, Ireland., Geological Society of America Abstracts with Programs, 33, A338
- EVERETT, C.E., WILKINSON, J.J. & RYE, D.M., 1999, Fracture-controlled fluid flow in the Lower Palaeozoic basement rocks of Ireland: implications for the genesis of Irish-type Zn-Pb deposits., Fractures, fluid flow and mineralisation., McCaffrey, K.J.W., LONERGAN, L. and WILKINSON, J.J., Geological Society, London., PP 247-276
- EVERETT, C.E., RYE, D.M. & ELLAM, R.M., 2003, Source or Sink? An assessment of the role of the Old Red Sandstone in the genesis of the Irish Zn-Pb deposits., Bulletin of the Society of Economic Geologists., Economic Geology, 98, 1, pp 31-50
- EYLES, V.A., 1950, The first national geological survey., Geological Magazine, 87, 373-382
- EYLES, V.A., 1952, The composition and origin of the Antrim laterites and bauxites., Memoir of the Geological Survey of Great Britain.,
- EYRE, S.L., WILKINSON, J.J., STANLEY, C.J. & BOYCE, A.J., 1996, Geochemistry of dolomitisation and zinc-lead mineralisation in the Rathdowney Trend, Ireland., Geological Society of America Abstracts with Programs, 28, A210-A211
- FALLICK, A.E., ASHTON, J.H., BOYCE, A.J., ELLAM, R.M. & RUSSELL, M.J., 2001, Bacteria were responsible for the magnitude of the world-class hydrothermal base-metal orebody at Navan, Ireland., Economic Geology, 96, p. 883-888
- FARRELL, L.P.C., 1988, Exploration Focus: Allihies., Geological Survey of Ireland, 88/1, Pamphlet Series, 4pp
- FARRELL, L., 2001, Rehabilitation at Silvermines, Ireland., North Atlantic Minerals Symposium Extended Abstracts Volume, May 27-30, 2001., Geological Survey of Ireland., 42-45
- FARRELL, L., 2002, Rehabilitation at Silvermines., The Irish Mining and Quarrying Society., Extractive Industry Ireland, 2002, 41-45
- FEEHAN, J., CRITCHLEY, M., 1989, Sharing the heritage of Silvermines., Irish Association for Economic Geology, Dublin., Annual Review, 82-86
- FEEHAN, J., 1994, The natural and cultural heritage of mining and quarrying in Ireland., The Extractive Industry and the Environment in Ireland, Britain and the rest of the EC., GARDINER, P.R.R., The Irish Mining and Quarrying Society, p.95-100
- FEELY, M., HOEGELSBERGER, H., 1991, Preliminary fluid inclusion studies of the Mace Head Mo-Cu deposit in the Galway Granite., Irish Journal of Earth Sciences., 11, 1-10
- FEELY, M., McCABE, E., WILLIAMS, C.T., 1988, U-, Th- and REE- bearing accessory minerals in a high heat production leucogranite within the Galway Granite, western Ireland., Institution of Mining and Metallurgy, 98, Jan. - April 1989, Sect. B, Apl. earth sci.,
- FEELY, B., 1998, The limestone renaissance., Institute of Quarrying Northern Ireland Branch and Irish Mining and Quarrying Society., Extractive Industry Ireland, 1998, 116
- FEELY, M., 2002, A review of fluids in Irish late-Caledonian granites., Irish Association for Economic Geology Weekend Course 2002 (Westport, Co. Mayo, Ireland) Abstracts Volume: Basement Controls on Mineralization in the Irish Orefield., Irish Association for Economic Geology., 60-64
- FEELY, P., 2005, The production of dimensional Irish Blue Limestone., The Irish Mining and Quarrying Society., Extractive Industry Ireland, 2005, 19-21
- FEELY, B., 2001, Perspectives on the limestone dimension stone industry in Ireland., North Atlantic Minerals Symposium Extended Abstracts Volume, May 27-30, 2001., Geological Survey of Ireland., 46-49
- FEELY, M., MADDEN, J., 1986, A quantitative regional gamma-ray survey on the Main Galway Granite, western Ireland., Geology and genesis of mineral deposits in Ireland., ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J.F., Irish Association for Economic Geology., 195-200
- FEELY, B., 1999, Modern Irish stone production., North Atlantic Minerals Symposium Extended Abstracts Volume, 19th-22nd September 1999. Dublin, Ireland., STANLEY, G.A., Geological Survey of Ireland., 109-112
- FETTES, D.J., 1985, Grade and time of metamorphism in the Caledonian Orogeny of Britain and Ireland., The nature and timing of orogenic Activity in the Caledonian rocks of British Isles: Geological Society of London Memoirs., HARRIS, A.L., 9, 41-53

- FILION, M., 1975, Spatial distribution of sulphide ores at the Mogul Mine, Silvermines, Ireland. Part 1: A New Conceptual Approach., Canadian Institute of Mining Bulletin, 79, p.p 73-79
- FILION, M., 1976, Ore-reserve calculations at the Mogul mine, Silvermines, Ireland., Transactions of the Institution of Mining and Metallurgy, 69, 73-79
- FILION, M., 1976, Ore reserve calculation of stopes of the Mogul Mine, Silvermines, Ireland., Canadian Institute of Mining Bulletin, 79, p.p 73-79
- FINLAY, S., 1994, Exploration and mining in Ireland - an environmental impasse?, The Extractive Industry and the Environment in Ireland, Britain and the rest of the EC., GARDINER, P.R.R., The Irish Mining and Quarrying Society, p.57-64
- FINLAY, S., GRENNAN, E., 1992, The "greening" of Irish exploration., The Minerals Industry 1980-1990., BOWDEN, A.A., EARLS, G., O'CONNOR, P.G. and PYNE, J.F., Irish Association for Economic Geology., 1-6
- FINLAY, S., 1999, Trends in Ireland's Mineral Industry; 1950 - 1999., North Atlantic Minerals Symposium Extended Abstracts Volume, 19th-22nd September 1999. Dublin, Ireland., STANLEY, G.A., Geological Survey of Ireland., 31-34
- FINLAY, S., 1992, Mining and the environment in Ireland - a challenging debate., Minerals, Metals and the Environment, Elsevier Applied Science., Institution of Mining and Metallurgy, 260-276
- FINLAY, S., 1991, Environmental aspects of Exploration and extraction - summing up., Irish Association for Economic Geology, Dublin., Annual Review, 28-31
- FINLAY, S., 1981, Probability theories as applied to further base metal discoveries in Ireland., Mineral exploration in Ireland, Progress and developments 1971-81., BROWN, A.G., PYNE, J.F., Irish Association for Economic Geology, Folens, Dublin., 19-24
- FINLAY, S., ROMER, D.M. & CAZALET, P.C.D., 1984, Lithogeochemical studies around the Navan Zinc-Lead orebody in Co. Meath, Ireland., Prospecting in areas of glaciated terrain., Institution of Mining and Metallurgy, London., 35-36
- FINLAY, S., 1988, The importance of Irish Companies in the present revival and future success of exploration and mining in Ireland., Ireland, A golden opportunity, Confederation of Irish Industry, Dublin., 55-57
- FINLAY, S., 1972, A favourable environment for Expansion in Irish Mining and Exploration., Group Conference Report, Confederation of Irish Industry., 113-126
- FINLAYSON, A.M., 1910, The metallogeny of the British Isles., Quarterly Journal of the Geological Society of London., 66, 281-296
- FINLOW-BATES, T., 1984, Controls on Pb-Zn-Ag orebodies in sediments - shouldn't all basins contain ore?, Irish Association for Economic Geology Newsletter., 28,
- FITZGERALD, D.H.B., 1963, Derryginagh Mine., Report, Mine plans and sections for National Mining and Development Co. Ltd., Geological Survey of Ireland Files.,
- FITZGERALD, D.H.B., ORAM, R.A.J.T., 1971, Grade control at Tynagh Mine, Ireland., Proceedings of the Ninth Commonwealth Mining and Metallurgical Congress 1969., Institution of Mining and Metallurgy, London.,
- FITZGERALD, D.H.B., ORAM, R.A.J., 1970, Grade Control at Tynagh Mine. Ireland using data processing techniques., Mining and Petroleum Geology, Proceedings of the Ninth Commonwealth Mining and Metallurgy Congress., Institution of Mining and Metallurgy, 2, 147-171
- FLEGG, A.E., BOLAND, M., 1992, Dimension Stone Resources - natural stone survey, Technology Ireland, March 1992, p25
- FLEGG, A.M., 1981, Industrial minerals in Ireland - a challenge for the 80's., Mineral exploration in Ireland, Progress and developments 1971-81., BROWN, A.G., Irish Association for Economic Geology, Folens, Dublin., 115-121
- FLEGG, A.M., BOLAND, M.A., 1992, Industrial minerals in Ireland - into the 1990's., The Irish Minerals Industry 1980-1990., BOWDEN, A.A., EARLS, G., O'CONNOR, P.G. & PYNE, J., Irish Association for Economic Geology, Dublin., 273-286
- FLEGG, A.M., BOLAND, M.A., 1992, Industrial Minerals in Ireland into the 1990's, The Irish Minerals Industry 1980-1990., BOWDEN. A.A., EARLS, G., O'CONNOR, P.G., PYNE, J.F., Irish Association for Economic Geology, Dublin., 273-286
- FLEGG, A.M., 1989, The geological setting of industrial minerals, in Ireland., Miscellaneous Paper Geological Society of London, 85, 18, 18
- FLEGG, A.M., DHONAU, N.B., 1989, Industrial minerals in Ireland - a case for promotion., Industrial Minerals - Tomorrow's Necessities., CRIBB, S.J., Mineral Industry Research Organisation, Lichfield, England., p67-77
- FLEGG, A.M., 1987, Industrial minerals in Ireland: their geological setting., Geological Survey of Ireland Report Series RS 87/3 (Mineral Resources), 27pp
- FLEGG, A.M., 1988, New dolomite deposit outlined., GSI Industrial Minerals Newsletter, 7, 2
- FLEGG, A.M., 1985, The geological setting of industrial minerals in Ireland., Extractive Industry Geology 1985:Proceedings of a conference held at Nottingham 25-26th March 1985., SCOTT, P.W., Industrial Minerals Unit, University of Hull on behalf of the Geological Society.,

- FLEGG, A.M., 1987, Ireland as an environment for industrial mineral development., Irish Association for Economic Geology Annual Review., Irish Association for Economic Geology, p.17-18
- FLEGG, A.M., 1989, Navan Resources announce andalusite find., GSI Industrial Minerals Newsletter, 9, 1-2
- FLIGHT, D., 2001, Exploration activity in Northern Ireland 2001., Irish Association for Economic Geology, Annual Review 2001., Irish Association for Economic Geology., 56-57
- FLYNN, R., 1994, A conceptual model of the hydrology of the abandoned sulphide mines at Avoca, Co. Wicklow. Bio-rehabilitation of acid mine drainage phenomenon by accelerated bio-leaching of mine waste., EU Environmental Research Programme, contract EV5V-CT93-0248. Technical Report MS94/1., Geological Survey of Ireland., 75pp
- FLYNN, D., 2004, The Arigna Mining experience., The Irish Mining and Quarrying Society., Extractive Industry Ireland, 2004, 45-49
- FONTBOTE, L., AMSTUTZ, G.C., 1986, Ore textures and structures resulting from diagenetic crystallization processes in ore deposits, and their use in exploration: a short review and an example from the Navan Mine, Ireland., Geology and genesis of mineral deposits in Ireland., ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., Irish Association for Economic Geology, Dublin., 685-692
- FORD, C., 1994, Syngenetic mineralization in the boulder conglomerate, Navan, Ireland (Abstracts)., Abstracts of Presentation to Mineral Deposits Studied Group meeting in Exeter.,
- FOSTER, R.P., 1988, Unravelling gold metallurgy: Recent advances and their relevance to exploration and mining in Ireland., Irish Association for Economic Geology, Dublin., Annual Review, 29-34
- FOWLER, ROBBIE., 1916, The Geology of the country around Dungannon., Special Memoir of the Geological Survey of Great Britain,
- FOWLER, A., 1959, The non-ferrous minerals of Northern Ireland., The future of non-ferrous mining in Great Britain and Ireland.,
- FOX, N., WILKINSON, J., BOYCE, A., EARLS, G., O'PREY, M., SHEPHERD, T. and FURLONG, D., 2005, Fluid flow and mineralization in the Armagh-Monaghan Gold Belt, Northern Ireland., The Mineral Deposits Studies Group Annual Winter Conference 4th - 6th January 2005, The Ulster Museum, Belfast: Mineral Deposits in the 21st Century., The Mineral Deposits Studies Group.,
- FRAME, C.H., 1975, This is how the Tara Mine will be operated., Mining Magazine, 3, 67-69
- FRAME, C.H., 1974, Construction and operation of a mining complex in an urban area., Paper presented to 21st industrial waste conference, Toronto.,
- FRANCES, P., PRESTON, J., 1974, Native copper in the Antrim Basalts., Irish Naturalists Journal,
- FRANCIS, P., 1972, The occurrence of native copper in Tertiary basalts of County Antrim., International Mining, 17, 2-4
- FRANKLIN, J.M., 1986, Volcanic - associated massive sulphide deposits - an update., Geology and genesis of mineral deposits in Ireland., ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J.F., Irish Association for Economic Geology., 49-70
- FRANKLIN, J.M., LYDON, J.W. and SANGSTER, D.F., 1986, Volcanic - associated massive sulphide deposits., Economic Geology, 75th Anniversary Volume., 485-627
- FRASER, R., 1801, General overview of agriculture, mineralogy, present state and circumstances of the County of Wicklow with observations on the means of their improvement., Royal Dublin Society, 289pp
- FREEMAN, S.R., EVERETT, C.E., 2000, Basement fault controls on carbonate hosted Zn-Pb mineralisation at Navan, Ireland., Geological Society of America Abstracts with Programs, 32, A393
- FRY, R., GARRIGAN, T., HUGHES, E., McCONNELL, P., 1988, 314,00 tonne underground blast at Tara Mines Limited., Irish Association for Economic Geology, Dublin., Annual Review, 84-85
- FULKERSON, F.B., 1977, Barium Mineral Facts and problems., 123-135
- FURLONG, D., 2004, An update on gold exploration in the Longford-Down Massif., Irish Association for Economic Geology: Weekend Course 2004, 15th-16th May, Bundoran. 'Sediment-Hosted Gold Deposits', Irish Association for Economic Geology, c/o Geological Survey of Ireland.,
- FUSCIARDI, L.P., 2001, Resource and reserve estimating at the Lisheen Zinc/Lead deposit, Ireland., Irish Association For Economic Geology Weekend Course, Faithlegg House, Waterford, 12th-13th May 2001. Estimation and Classification of Mineral Resources and Ore Reserves: The State of the Art., Irish Association for Economic Geology.,
- FUSCIARDI, L., 2003, The Lisheen Zinc/Lead Mine - An update., NAMS 2003, Abstracts Volume, Dublin, Ireland: 1st September - 3rd September 2003., IGES-NAMS 2003 - Dublin, Ireland., 114
- FUSCIARDI, L.P., 1995, Carboniferous stratigraphy and mineralization in three drillholes from the Inishannon area, South Munster Basin, Co. Cork., Irish carbonate-hosted Zn-Pb deposits., ANDERSON, K., ASHTON, J., EARLS, G., HITZMAN, M. and TEAR, S., Irish Association for Economic Geology., 103-109
- FUSCIARDI?, L.P., GUVEN, J.F., STEWART, D.R.A., CARBONI, V. & WALSH, J.J., 2003, The geology and genesis of the Lisheen Zn-Pb deposit, Co. Tipperary, Ireland., Europe's Major Base Metal Deposits., KELLY,

- J.G., ANDREW, C.J., ASHTON, J.H., BOLAND, M.B., EARLS, G., FUSCIARDI, L. and STANLEY, G., Dublin, Irish Association for Economic Geology., p. 455-481
- FUSCIARDI?, L.P., GUVEN, J.F., STEWART, D.R.A., CARBONI, V. & WALSH, J.J., 2003, The geology and genesis of the Lisheen Zn-Pb deposit, Co. Tipperary., Europe's Major Base Metal Deposits., KELLY, J.G., ANDREW, C.J., ASHTON, J.H., BOLAND, M.B., EARLS, G., FUSCIARDI, L. and STANLEY, G., Irish Association for Economic Geology., 455-482
  - GAGES, A., 1860, The formation of orpiment in a mass of sulphide of barytes found interstratified in the Carboniferous Limestone near Silvermines, Co. Tipperary., Journal of the Geological society of Dublin, 8, 243-4
  - GALLAGHER, V., BOYCE, A.J., FALLICK, A.E. and MOHR, P.J., 1992, An isotope study of the Harberton Bridge Fe-Zn-Pb deposits, Co. Kildare, and its implications for metallogenesis in Ireland., The Irish Minerals Industry 1980-1990., BOWDEN, A.A., EARLS, G., O'CONNOR, P.G. and PYNE, J.F., Irish Association for Economic Geology, Dublin., p. 261-272
  - GALLAGHER, V., KENNAN, P.S., 1992, Tourmaline on the margin of the Leinster Granite, Southeast Ireland: petrogenetic implications., Journal of Earth Science, Royal Dublin Society, 2, 131-150
  - GALLAGHER, F., 2004, Planning and Development Act., The Irish Mining and Quarrying Society., Extractive Industry Ireland, 2004, 19-23
  - GALLAGHER, V., STANLEY, G., 2005, Mineral potential mapping on the Caledonides of southeast Ireland., The Mineral Deposits Studies Group Annual Winter Conference 4th - 6th January 2005, The Ulster Museum, Belfast: Mineral Deposits in the 21st Century., The Mineral Deposits Studies Group.,
  - GALLAGHER, V., 1989, The occurrence, textures, mineralogy and chemistry of a chromite-bearing serpentinite, Cumber, Co. Wexford., Geological Survey of Ireland Bulletin, 4, 89-98
  - GALLAGHER, V., FEELY, M., MOEGELSBERGER, H., JENKIN, G.R.T. & FALLICK, A.E., 1992, Geological, fluid inclusion and stable isotope studies of Mo mineralization, Galway Granite, Ireland., Mineralium Deposita, 27, 314-325
  - GALLAGHER, M.J., PEASE, S.F., COATS, J.S. and ARCHER, P.D., 1981, Dalradian stratabound mineralisation (abs)., Irish Association for Economic Geology, 14th - 16th September. Dublin., Irish Association for Economic Geology.,
  - GALLAGHER, V., O'CONNOR, P.J., 1996, Characterization of the abandoned sulphide mines at East Avoca, Co. Wicklow., Geological Survey of Ireland Technical Report MS96/1, pp82
  - GALLAGHER, V., 1989, Geological and isotope studies of microtonalite - hosted W-Sn mineralization in SE Ireland., Mineralium Deposita, 24, p19-28
  - GARDINER, P.R.R., PYRNE, J.F. and McARDLE, P., 1982, Mineral exploration in Ireland., Mining Magazine, 147, 366-369
  - GARDINER, P.R.R., 1987a, Ireland., International Mining, 1987 Yearbook, 140-3
  - GARDINER, P.R.R., 1983, The Irish legal framework for mineral exploration., Legal aspects of prospecting in the United Kingdom. Occasional Paper., Institution of Mining and Metallurgy, 4, 71-73
  - GARDINER, P.R.R., 1969, Contribution to paper by M.J. Russell entitled 'Structural controls of base metal mineralisation in Ireland drift'., Transactions of the Institution of Mining and Metallurgy, 79, B51
  - GARDINER, P.R.R., 2002, Mining heritage., The Irish Mining and Quarrying Society., Extractive Industry Ireland, 2002, 47-49
  - GARDINER, P.R.R., McARDLE, P., 1991, The geological setting and distribution of gypsum and anhydrite deposits in the Kingscourt district, Co. Cavan., The Irish Minerals Industry - A review of the decade, Abstracts volume and programme, Great Southern Hotel Galway, 21st - 23rd September 1990., Irish Association for Economic Geology,
  - GARDINER, P.R.R., 1990, Ireland., International Mining,
  - GARDINER, P.R.R., RIDDIHOUGH, R.F. and ROBINSON, K.W., 1974, Potential hydrocarbon basins off Ireland., Technology Ireland, 18, 1-15
  - GARDINER, P.R.R., DHONAU, N.B., FLEGG, A.M., McARDLE, P., PYRNE, J.F. and GORMLEY, M., 1982, Ireland - Mineral Production and Exploration 1981., World Mining Yearbook, 35, 8, 174-176
  - GARDINER, P.R.R., 1985, Ireland., International Mining, August 1985, 146
  - GARDINER, P.R.R., 1986a, Ireland., International Mining,
  - GARDINER, P.R.R., HORNE, R.R., 1978, A current profile of Irish Mineral Resources., Technology Ireland,
  - GARDINER, P.R.R., 1988a, Ireland., International Mining, August 1988,
  - GARDINER, P.R.R., 1989, Ireland., International Mining,
  - GARDINER, P.R.R., HORNE, R., 1973, Mining geology. What's where in Ireland., Mining Ireland, 1,
  - GARDINER, P.R.R., 1978, Two major lineaments in the south of Ireland and their influence on Palaeozoic deposition structure and mineralisation (abs).,
  - GARDINER, P.R.R., 1990, The response of the Geological Survey to Irish mineral exploration and development trends in the 1980's., The Irish Minerals Industry - A review of the decade, Abstracts volume and programme, Great Southern Hotel Galway, 21st - 23rd September 1990., Irish Association for Economic Geology,

- GARDINER, P.R.R., 1988b, Minerals-related work of the Geological Survey of Ireland - an update., Irish Association for Economic Geology, Dublin., Annual Review, 11-16
- GARDINER, P.R.R., 1989, Promoting Irish mineral exploration in the 1980's., Irish Association for Economic Geology, Dublin., Annual Review, 14-21
- GARDINER, P.R.R., PYNE, J.F., 1988, State Mining and Prospecting Facilities in Coalfield areas. Map and list., Geological Survey of Ireland,
- GARDINER, P.R.R., GEOGHEGAN, M. and KEARY, R., 1987, Potential for hard mineral resources in the Irish offshore area., Irish Association for Economic Geology, Annual Review 1987., Irish Association for Economic Geology., 66-72
- GARDINER, P.R.R., 1986b, Some current minerals-related work of the Geological Survey of Ireland., Irish Association for Economic Geology, Dublin., Annual Review, 8-10
- GARDINER, P.R.R., DHONAU, N.B. AND PYNE, J.F., 1994, Ireland -Mineral Production and Exploration 1982, World Mining, 36, 8, p.176-178
- GARDINER, P.R.R., McARDLE, P., 1992, The geological setting of Permian gypsum and anhydrite deposits in the Kingscourt district, Counties Cavan, Meath and Monaghan., The Irish Minerals Industry 1980-1990., BOWDEN, A.A., EARLS, G., O'CONNOR, P.G. & PYNE, J., Irish Association for Economic Geology, Dublin., 301-316
- GARDINER, P.R.R., DHONAU, N.B., 1985, Role of the Irish Government in relation to mineral exploration and development., Role of Government in mineral resources development., The Institute of Mining and Metallurgy, London., 121-128
- GARDINER, P.R.R., 1989, The recent Irish experience in promoting mineral exploration., Mineral Exploration Programmes '89, Palacio de Congresos Madrid, Spain, November 13-15, 1989., International Mining and MIRO., 28,
- GARDINER?, P.R.R., 1987, Why search for gold - What about other minerals? A Geological Survey Perspective., Ireland - A Golden Opportunity., Irish Mining and Exploration Group., 26th International Congress abstract, 2, 20-31
- GARDINER?, P.R.R., 1988, Why search for gold - What about other minerals? A Geological Survey Perspective., Ireland - A Golden Opportunity., Confederation of Irish Industry, Dublin., 20-31
- GARVEN, G., APPOLD, M.S., TOPTYGINA, V.I. and HAZLETT, T.J., 1999, Hydrogeologic modelling of the genesis of carbonate-hosted lead-zinc ores., Hydrogeology Journal, 7, p. 108-126
- GARVEY, B., 2004, Practical measures in the control of pollution from chemicals used in quarrying and processing, The Irish Mining and Quarrying Society., Extractive Industry Ireland, 2004, 38-43
- GEOGHEGAN, M., GARDINER, P.R.R. and KEARY, R., 1989, Possibilities for commercial mineral deposits in the Irish offshore area., Marine Mining, 8, p267-282
- GEORGE, T.N., JOHNSON, G.A.L., MITCHELL, M., PRENTICE, J.E., RAMSBOTTOM, W.H.C., SEVASTOPULO, G.D. and WILSON, R.B., 1976, A correlation of Dinantian rocks in the British Isles., Geological Society, London, Special Reports., 7,
- GILMORE, J.G., 1922, Lignite from Washing Bay bore., Proceedings of the Royal Dublin Society, 17, 6-8
- GLEESON, S.A., BANKS, D.A., EVERETT, C.E., WILKINSON, J.J., SAMSON, I.M. and BOYCE, A.J., 1999, Origin of mineralising fluids in Irish type deposits: Constraints from halogens., Mineral deposits: Processes to processing., STANLEY, C.J. ET. AL., Rotterdam, Balkema., 2, p. 857-860
- GLEESON, D.F., 1937, The Silvermines of Ormond., Journal of the Royal Society of Antiquaries of Ireland., 67, 101-116
- GLESECKE, SIR C.L., 1826, Account of a mineralogical excursion to the County of Donegal., Dublin., 32pp
- GOODBODY, R., 2005, Lead mining in Glendalough and Ballycorus., The Irish Mining and Quarrying Society., Extractive Industry Ireland, 2005, 109-111
- GOVETT, G.J.S., CHORH, C.Y., 1977, Detection of deeply buried sulphide deposits by measurement of organic carbon, hydrogen ion and conductance in surface soils., Prospecting in areas of glaciated terrain 1977., London: Institution of Mining and Metallurgy., 49-55
- GRAY, G.J., RUSSELL, M.J., 1984, Regional Mn-Fe lithogeochemistry of the lower Carboniferous Waulsortian 'Reef' limestone in Ireland., Prospecting in areas of glaciated terrain., Transactions of the Institution of Mining and Metallurgy, London., p57-68
- GRAY, G., 1982, Lithogeochemical aureols in Irish base-metal deposits and their use in mineral exploration (Abstract)., Mineral Deposits Studies Group meeting, University of Glasgow.,
- GREGG, J.M., SHELTON, K.L. JOHNSON, A.W., SOMERVILLE, I.D. and WRIGHT, W.R., 2001, Dolomitization of the Waulsortian Limestone (Lower Carboniferous) in the Irish Midlands., Sedimentology, 48, p. 745-766
- GREGG, J.M., SHELTON, K.L., SOMERVILLE, I.D. and WRIGHT, W.R., 1999, Multiple dolomitization of Waulsortian limestone (Lower Carboniferous) in the Southern Irish Midlands., 11th Bathurst Meeting, Journal of Conference abstracts., 4, 2, 925

- GREIG, J.A., ET. AL., 1971, Lead and sulphur isotopes of the Irish Base Metal Mines in Carboniferous carbonate host rocks., *Geochemistry and crystallography of Sulphide minerals in hydrothermal deposits: Proceedings IMA-IAGOD Meetings (Special Issue No. 2).*, TAKEMCHI, Y., Society of Mining Geologists of Japan, Tokyo., 2, 84-92
- GRENNAN, E.F., 1990, The Glangevlin Gypsum Deposit., *Irish Minerals Industry - A Review of the Decade. Abstracts Volume and Programme.*, Irish Association for Economic Geology, Abstracts Volume and Programme., 4,
- GRENNAN, E., 1992, The Glangevlin gypsum deposit, Co. Cavan., *The Irish Minerals Industry 1980-1990.*, BOWDEN, A.A., EARLS, G., O'CONNOR, P.G. & PYNE, J., Irish Association for Economic Geology, Dublin., 317-326
- GRENNAN, E.F., 1985, Review of Mineral Exploration/Mining activities in Ireland during 1985., *Irish Association for Economic Geology, Dublin., Annual Review*, 6-7
- GRENNAN, E.F., 1986b, Review of Mineral Exploration and mining activity in Ireland, 1986., *Irish Association for Economic Geology, Dublin., Annual Review*, 5-7
- GRENNAN, E.F., 1987, Glangevlin Gypsum Deposit., *GSI Industrial Minerals Newsletter*, 3, 1
- GRENNAN, E.F., 1999, Barytes in Ireland., *North Atlantic Minerals Symposium Extended Abstracts Volume, 19th-22nd September 1999. Dublin, Ireland.*, STANLEY, G.A., Geological Survey of Ireland., 113-116
- GRENNAN, E.F., 1987, Review of Mineral Exploration and mining activity in Ireland, 1987., *Irish Association for Economic Geology, Dublin., Annual Review*, 6-7
- GRENNAN, E.F., 1979, The Ballynoe barite deposit., *Prospecting in areas of glaciated terrain, Excursion Handbook.*, Irish Association for Economic Geology., p66-72
- GRENNAN, E.F., 1986, Geology and genesis of the Courtbrown Pb-Zn-Ag deposit., *Geology and genesis of mineral deposits in Ireland*, ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., Dublin, Irish Association for Economic Geology., 449-456
- GRENNAN, E.F., 1988, Review of Mineral Exploration and mining activity in Ireland, 1988., *Irish Association for Economic Geology, Dublin., Annual Review*, 5-6
- GRENNAN, E.F., FINLAYS, 1992, The Greening of Irish Exploration., *The Irish Minerals Industry - 1980-1990.*, BOWDEN, A.A., EARLS, P.G., O'CONNOR, P.G., PYNE, J.F., Irish Association for Economic Geology, Dublin., 1-7
- GRENNAN, E.F., BOLAND, M.G., 1981, The changing face of Irish Exploration: the Emmel Castle case history., *Mineral exploration in Ireland, Progress and developments 1971-81.*, BROWN, A.G., Irish Association for Economic Geology, Folens, Dublin., 63-71
- GRENNAN, E.F., 1990, Review of Mineral Exploration and mining activity in Ireland, 1990., *Irish Association for Economic Geology, Dublin., Annual Review*, 7-9
- GRENNAN, E.F., 1991, Review of Mineral Exploration., *Irish Association for Economic Geology, Dublin., Annual Review*, 5-10
- GRENNAN, E.F., 1986, The geology and mineralization of the Courtbrown prospect, Co. Limerick., *Geology and genesis of mineral deposits in Ireland.*, ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., Irish Association for Economic Geology, Dublin., p449-456
- GRENNAN, E.F., 1992b, Review of Mineral Exploration., *Irish Association for Economic Geology, Dublin., Annual Review*, 110-114
- GRENNAN, E.F., 1989, Review of Mineral Exploration and mining activity in Ireland, 1989., *Irish Association for Economic Geology, Dublin., Annual Review*, 10-12
- GRIFFITH, SIR W., 1861, Catalogue of the several localities in Ireland where mines or metalliferous indications have hitherto been discovered., *Journal of the Geological society of Dublin*, 9, 140-155
- GRIFFITH, S.V., 1959, The Silvermines operation, Co. Tipperary, Ireland., *Mining Magazine*, March 1955 to January 1956.,
- GRIFFITH, R.J., 1829, Geological and mining surveys of the coal districts of the countries Tyrone and Antrim in Ireland, R. Grainsberry, Dublin, 11, 77pp
- GRIFFITH, R., 1828, Report on the Metallic mines of the Province of Leinster, in Ireland., *Royal Dublin Society*, 29pp
- GRIFFITH, R.J., 1818, Geological and mining survey of the Connaught coal district in Ireland., *Halliday Pamphlet Collection, Royal Dublin Society*,
- GRIFFITH, A.E., LEGG, I.C. and MITCHELL, W.I., 1987, *Mineral Resources., Province, City and People: Belfast and its regions.*, BUCHANAN, R.H. and WALKER, B.M., Greystone Books, Belfast., p43-58
- GRIFFITH, R., 1821, Report on Cappagh Copper Mine in County of Cork., *Halliday Pamphlet Collection.*, *Royal Irish Academy*, 1239, 13
- GRIFFITH, R.J., 1814, Geological and mining report on the Leinster coal district., *Halliday Collection*, 131, 177pp

- GRIFFITH, R.J., 1862, The localities of the Irish Carboniferous fossils, with the Irish mining localities, etc., *Journal of the Geological society of Dublin*, 9, p. 21-155
- GRIFFITH, R.J., 1855, The copper beds of the South coast of the County of Cork., *Journal of the Geological society of Dublin*, 6, 195-205
- GROVES, D.I., GOLDFAB, R.J., FRANCOIS, R. and HART, C.J.R., 2003, Gold deposits in metamorphic belts: overview of current understanding, outstanding problems, future research, and exploration significance., *Economic Geology*, 98, 1-29
- GROVES, A.W., 1952, Wartime investigations into haematite and manganese ore resources of Great Britain and Northern Ireland., Ministry of supply,
- HALE, M., MOON, C.J., 1982, Geochemical expressions at surface of mineralization concealed beneath glacial till at Keel, Eire., *Prospecting in areas of glaciated terrain 1982.*, DAVENPORT, P.H., Canadian Institute of Mining and Metallurgy, 228-239
- HALL, T.M., 1868, *The Mineralogist's Directory or a Guide to the principal mineral localities in the United Kingdom of Great Britain and Ireland.*, Mineral localities of Ireland, London, 105pp
- HALL, A., WALSH, J.N., 1970, The Beryls of The Rosses District, Donegal., *Mineralogical Magazine*, 38, Sept. 1971, p328-334
- HALLIDAY, A.N., MITCHELL, J.G., 1983, K-Ar ages of clay concentrate from Irish orebodies and their bearing on the timing of mineralization., *Transactions of the Royal Society of Edinburgh*, 74, p. 1-14
- HALLISAY, T., 1939, The Coalfields of S.E. Ireland., *Proceedings of the Geologists Association*, 50, p.330-4
- HALLISSY, T., 1927, Iron pyrites Ireland. (Typed MS, with output figures, of articles in *Les Reserves Mondiale en Pyrites*), 14th International Geological Congress 1929, Madrid., 1,
- HALLISSY, T., 1923, Barytes in Ireland., *Memoir of the Geological Survey of Ireland.*, 82
- HALLISSY, T., 1939, The coalfields of south-east Ireland, *Proceedings of the Geologists Association*, 50, 330-4
- HALLISSY, T., 1929, Gold resources of the Irish Free State., *Gold resources of the world, International Geological Congress.*, 205-6
- HALLOF, P.F., 1966, The use of resistivity results to outline sedimentary rock types in Ireland.,
- HALLOF, P.F., SCHULTZ, R., BELL, R.A., 1962, Induced polarisation and geological investigations of the Ballyvergin copper deposit, Co. Clare, Ireland., *Transactions of the American Institute of Mining Engineers*, 223, 312-318
- HALLS, C., 1975, Syndiagenetic emplacement in Irish ore deposits and the tectonic implications (Abstract)., *Annus Meeting, Mineral Deposits Studies Group, University of Leicester.*,
- HALLS, C., BOAST, A.M., COLEMAN, M.L. and SWAINBANK, I.G., 1979, Contributed remarks to discussion of Silvermines orebodies, Ireland., 88b, 129-130
- HAMILTON, J., 1852, Notes on the geology of the country around Kingscourt., *Journal of the Geological society of Dublin*, 5, 161-4
- HARBISON, P., 1966, *Mining and Metallurgy in Early Bronze Age Ireland.*, *Antiquity*, 10, 3-11
- HARBISON, P., 1871, Hartmann's gold analyses: a comment., *Journal of the Royal Society of Antiquaries of Ireland.*, 9, 140-155
- HARDMAN, E.T., 1876a, Analysis of coals and ironstones from the Dungannon Coalfield, Co. Tyrone., *Proceedings of the Royal Irish Academy*, 2, 2, 529-538
- HARDMAN, E.T., 1878b, The barytes mines near Bantry., *Scientific Proceedings of the Royal Dublin Society*, 1, 121-5
- HARDMAN, E.T., 1876b, A contribution to the history of dolomite - The dolomites of the Carboniferous Limestone of Ireland., *Proceedings of the Royal Irish Academy*, 2, 2, 705-730
- HARDMAN, E.T., 1887, Explanatory memoir of the geology of the Leinster Coalfield., *Geological Survey of Ireland*,
- HARDMAN, E.T., 1877, The origins of anthracite; with suggestions as to the possible correlation time and manner of production of the anthracites of Southern Ireland, Wales, Devonshire and France, *Journal of the Royal Geological Society of Ireland*, 4, 200-9
- HARDMAN, E.T., 1877, The geology of the Tyrone coalfield and surrounding districts (Explanation of sheet 35)., *Memoirs of the Geological Survey of Ireland.*,
- HARDMAN, E.T., 1881, Explanatory memoir on the geology of the Leinster Coalfields., *Memoir of the Geological Survey of Ireland.*, 96pp
- HARDMAN, E.T., 1837b, The present state of coal mining in the County of Tyrone., *Journal of the Royal Dublin Society*, 6, 366-383
- HARDMAN, E.T., 1873a, The occurrence of siliceous nodular brown haematite (goethite) in the Carboniferous Limestone beds, near Cookstown, Co. Tyrone; with analysis, and note of its formation by chemical alteration from ordinary clay-ironstone., *Journal of the Royal Geological Society of Ireland*, 4, 150-8
- HARTLEY, J.J., 1938, The Dalradian rocks of the Sperrin Mountains and Adjacent Areas in Northern Ireland., *Proceedings of the Royal Irish Academy*, 44B, 141-171



- HARTLEY, J.J., 1945, Notes on the 'Yoredales Rocks' of Tyrone., *Irish Naturalists Journal*, 8, 255-60
- HARTMAN, A., 1978, Irish and British gold types and their West European counterparts., *The origins of metallurgy in Atlantic Europe, proceedings of the fifth Atlantic colloquium, Dublin, 30th March to 4th April 1978.*, Dublin, The Stationery Office., 215-228
- HARVEY, S., 1990, The Exorbitant Cost of Irish Gold [on the possible impact of gold mining in Ireland]., *Geological Magazine*, Sept. 1990, 36-38
- HAUGHEY, N., McARDLE, P., 1990, Vitrinite reflectance data from a preliminary study on selected Irish coal seams., *Geological Survey of Ireland Bulletin*, 4, p201-209
- HAUGHTON, S., 1862, Experimental researches on the granites of Ireland, three on the granites of Co. Donegal., *Quarterly Journal of the Geological Survey*, 18, 403-420
- HAUGHTON, S., 1855a, Geological and statistical notes on Irish mines No. 3 Mining district of Kenmare., *Journal of the Geological society of Dublin*, 6, 206-217
- HAUGHTON, S., 1860, The occurrence of nickeliferous magnetic pyrites from Tiernahill, near Maum, Co. Galway., *Journal of the Geological society of Dublin*, 9, 1-2
- HAUGHTON, S., 1852, Account of the gangue of Canlig lead mine., *Journal of the Geological society of Dublin*, 5, 203-4
- HAUGHTON, S., 1853, Geological and statistical notes on Irish mines. No. 1 Ballymurtagh sulphur and copper mine., *Journal of the Geological society of Dublin*, 5, 279-285
- HAYES, C., 2004, Thirty years on technical snippets and others from Gortdrum., *The Irish Mining and Quarrying Society.*, Extractive Industry Ireland, 2004, 102-103
- HAZLETON, R.E., CLIFF, D.C., WOLFENDEN, M. & MORRISSEY, C.J., 1989, Sampling of a Complex Gold Lode near Omagh, Northern Ireland., *Mineral Exploration Programmes '89, Palacio de Congresos Madrid, Spain, November 13-15, 1989.*, *International Mining and MIRO.*, 29,
- HAZLETT, T.J., GARVEN, G., 1995, A hydrogeologic analysis of the role of fault (sic) in the genesis of carbonate-hosted Pb-Zn deposit, Midlands Basin, Ireland., *Extended Abstracts: International field conference on carbonate hosted lead-zinc deposits.*, LEACH, D.L. and GOLDBABER, M.B., St. Louis, Missouri., 127-130
- HENRY, W., 1752, A letter from Rev. William Henry, D.D., to the Right Honourable the Lord Cadogan, F.R.S. concerning the Copper-Springs in the County of Wicklow in Ireland., *Transactions of the Royal Society of London*, 47, 500-503
- HENRY, W., 1753, Copper springs in the County of Wicklow., *Philosophical Transactions*, 47, p502
- HENRY, I., 1999, Mining investment in Ireland and the developed world., *North Atlantic Minerals Symposium Extended Abstracts Volume, 19th-22nd September 1999. Dublin, Ireland.*, STANLEY, G.A., *Geological Survey of Ireland.*, 15-16
- HERBERT, S., 1984, Irish ideas improve mineral reconnaissance., *Mining Magazine*, January, 50-55
- HERR, C., GRAY, N.F., 1995, Environmental impact of acid mine drainage on the Avoca river: metal fluxes in water and sediment. Part 3: metals in water and suspended particulate matter., *Water Technology Research, Technical Report 21.*, University of Dublin, Trinity College., 32pp
- HITZMAN, M.W., O'CONNOR, P.G., SHEARLEY, E., SCHAFFALITZKY, C., HOUGH, D., BEATTY, D.W., ALLAN, J.R., THOMPSON, T., 1990, Discovery and Geology of the Lisheen Zn-Pb-Ag Prospect, Co. Tipperary, Ireland., *The Irish Minerals Industry - A review of the decade, Abstracts volume and programme, Great Southern Hotel Galway, 21st - 23rd September 1990.*, *Irish Association for Economic Geology, Abstracts volume and programme.*, 7,
- HITZMAN, M.W., EARLS, G., SHEARLEY, E., KELLY, J., CRUISE, M. & SEVASTOPULO, G., 1995, Ironstones (iron oxide-silica) in the Irish Zn-Pb deposits and regional iron oxide - (silica) alteration of the Waulsortian limestone in southern Ireland., *Irish carbonate-hosted Zn-Pb deposits (Guidebook Series).*, ANDERSON, K., ASHTON, J., EARLS, G., HITZMAN, M. and TEAR, S., *Society of Economic Geologists.*, 21, 261-273
- HITZMAN, M.W., LAYER, P.W. and NEWBERRY, R.J., 1994, Argon-argon step-heating studies of muscovite in the Upper Old Red Sandstone: the first absolute dates for the age of Irish zinc-lead mineralization., *Geological Society of America Abstracts with Programs*, 26, A381
- HITZMAN, M.W., BEATY, D.W., 2003, The Irish Zn-Pb- (Ba-Ag) Orefield., *Europe's Major Base Metal Deposits.*, KELLY, J.G., ANDREW, C.J., ASHTON, J.H., BOLAND, M.B., EARLS, G., FUSCIARDI, L. and STANLEY, G., *Irish Association for Economic Geology.*, 499-532
- HITZMAN, M.W., ALLAN, J.R. and BEATY, D.W., 1998, Regional dolomitization of the Waulsortian Limestone in southeastern Ireland: Evidence of large-scale fluid flow driven by the Hercynian Orogeny., *Geology*, 26, p. 547-550
- HITZMAN, M.W., O'CONNOR, P., SHEARLEY, E., SCHAFFALIYZKY, C., BEATY, D.W., ALLAN, J.R. and THOMPSON, T., 1992, Discovery and geology of the Lisheen Zn-Pb-Ag prospect, Rathdowney trend, Ireland., *The Irish Minerals industry 1980-1990.*, BOWDEN, A.A., EARLS, G., O'CONNOR, P.G. and PYNE, J.F., Dublin, *Irish Association for Economic Geology.*, p. 227-246

- HITZMAN, M.W., 1993, The Geology of the Central Midlands of Ireland, Map 1:100 000,
- HITZMAN, M.W., LARGE, D., 1986, A review and classification of the Irish carbonate-hosted base metal deposits., *Geology and genesis of mineral deposits in Ireland.*, ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., Irish Association for Economic Geology, Dublin., 217-238
- HITZMAN, M.W., REDMOND, P.B. and BEATY, D.W., 2003, The carbonate-hosted Lisheen Zn-Pb-Ag deposit, Co. Tipperary, Ireland., *Economic Geology*, 97, 1627-1655
- HITZMAN, M.W., 1999, Extensional faults that localise Irish syndiagenetic Zn-Pb deposits and their reactivation during Variscan compression., *Fractures, fluid flows and mineralization: Geological Society Special Edition.*, McCAFFREY, K.J.W., LONERGAN, L. and WILKINSON, J.J., The Geological Society, London., 155,
- HITZMAN, M.W., 1986, Geology of the Abbeytown Mine, Co. Sligo, Ireland., *Geology and genesis of mineral deposits in Ireland.*, ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., Irish Association for Economic Geology., pp 341-353
- HITZMAN, M.W., 1992, Discovery of the Lisheen Zn-Pb-Ag deposit, Ireland., *Society of Economic Geology, Littleton, Newsletter*, 9, 12-15
- HITZMAN, M.W., BEATY, D.W., 1996, The Irish Zn-Pb- (Ba) Orefield., *Carbonate-hosted lead-zinc deposits. (Special Publication number 4)*, SANGSTER, D.F., Society of Economic Geologists., 4, p. 112-143
- HITZMAN, M.W., CAULFIELD, J.B.D., 1990, Characteristics of Zn+Pb+Ba mineralisation in Ireland - A comparison with sediment hosted Zn-Pb deposits and Mississippi Valley Type (MVT) deposits., *The Irish Minerals Industry - A review of the decade, Abstracts volume and programme, Great Southern Hotel Galway, 21st - 23rd September 1990.*, Irish Association for Economic Geology,
- HITZMAN, M.W., SCHAFFALITZKY, C., O'CONNOR, P. and SHEARLEY, E., 1991, Discovery of the Lisheen zinc-lead-silver deposit, Rathdowney Trend, Ireland (abs.)., *Geological Society of America Abstracts with Programs*, 23, A172
- HITZMAN, M.W., 1995a, Geological setting of the Irish Zn-Pb- (Ba-Ag) Orefield., *Irish carbonate-hosted Zn-Pb deposits (Guidebook Series)*., ANDERSON, I.K., ASHTON, J.H., EARLS, G., HITZMAN, M.W. and TEAR, S., Society of Economic Geologists, Littleton, 21, 3-24
- HITZMAN, M.W., RECIO, C., CAULFIELD, J.B.D., BOYCE, A.J. and FALLICK, A.E., 1988, Stable isotopic (S, C, O) study of the Abbeytown Zn-Pb-Ag Mine, Co. Sligo, Ireland (abs)., *Geological Society of America Abstracts with Programs*, 20, 7, pA38
- HITZMAN, M.W., O'CONNOR, P.G., SHEARLEY, E., 1991, The Lisheen Zn-Pb-Ag deposit Rathdowney trend, Ireland., *Irish Association for Economic Geology, Dublin., Annual Review*, 127
- HITZMAN, M.W., 1992, Geology of the Abbeytown mine area, Co. Sligo., *Irish Association for Economic Geology, Dublin., Annual Review*, 91-92
- HITZMAN, M.W., 1995, Mineralization in the Irish Zn-Pb- (Ba-Ag) orefield., *Irish carbonate-hosted Zn-Pb deposits (Guidebook Series)*., ANDERSON, I.K., ASHTON, J.H., EARLS, G., HITZMAN, M.W. and TEAR, S., Society of Economic Geologists., 21, 25-61
- HOAGLIN, D.C., MOSTELLER, F. and TURKEY, J.W., 1983, Understanding robust and exploratory data analysis., *A Handbook for Data Analysis in the Behavioural Sciences: Statistical Issues*, John Wiley and Sons, New York., 447 p.
- HODGES, J.F., 1882, Iron Mining in Co. Antrim., *Journal of the Chemico - Agricultural Society of Ulster*, 16,
- HOGAN, M.A., 1944, Fuel resources., *The Natural Resources of Ireland*, Royal Dublin Society. Dublin., 34-54
- HOGELSBERGER, M., O'CONNOR, P.J., FEELY, M., 1991, Composition and evaluation of hydrothermal fluids of the Galway Bay (Ireland): fluid inclusion and REE - chemistry of fluorites., *Plinium*, 5, 104-5
- HOLDEN, 1869, Iron ores within the Antrim Basalts., *Quarterly Journal of the Geological Society of London.*, 26,
- HOLDSTOCK, M.P., 1981, Breccia hosted zinc-lead mineralisation in Tournaisian and Lower Visean carbonates at Harberton Bridge, Co. Kildare., *Mineral exploration in Ireland, Progress and developments 1971-81.*, BROWN, A.G., Irish Association for Economic Geology, Folens, Dublin., 83-90
- HOLLAND, C.H., 1979, Minerals, Irish Resources and Land Use., GILLMORE, D.A., Institute of Public Administration, Dublin., 64-90
- HOLLAND, C.H., KELLING, G. & WALTON, E.K., 1979, O.T. Jones and after: a multitude of models., *The Caledonides of the British Isles - Reviewed (Special Publications)*, HARRIS, A.L., HOLLAND, C.H. and LEAKE, B.E., Geological Society, London., 8, 69-481
- HOLLINSWORTH, C., 1999, Bantry: Ireland's Coastal Super Quarry - A Case History., *North Atlantic Minerals Symposium Extended Abstracts Volume, 19th-22nd September 1999. Dublin, Ireland.*, STANLEY, G.A., Geological Survey of Ireland., 65-68
- HOLMES, J.S., 1999, How much rock was extracted to build your house., *Extractive Industry Ireland 1999.*,
- HOOD, D., 1987, Ireland as a Base., *Conference Proceedings, Confederation of Irish Industry (Irish Mining and Exploration Group).*, 52-54
- HOPPE, R., 1972, Tara-portent of the future for Irish mines., *Engineering and Mining Journal*, 178, 83-98

- HOPPE, R., 1977, The emergence of modern Irish metal mines., *Engineering and Mining Journal*, 1, October 1977, 81-95
- HORNE, R.R., 1975a, Possible transverse fault control of base metal mineralisation in Ireland and Britain., *Irish Naturalists Journal*, 18, 5, 140-144
- HORNE, R.R., 2005, Transverse fault zones and mineralization in Ireland., *The Mineral Deposits Studies Group Annual Winter Conference 4th - 6th January 2005, The Ulster Museum, Belfast: Mineral Deposits in the 21st Century.*, The Mineral Deposits Studies Group.,
- HORNE, R.R, GARDINER, P.R.R., PYNE, J.F., 1991, Mineral exploration and development in Ireland: its administration and infrastructure, 3rd edition., Geological Survey of Ireland, 91/1, Information Circular, 16pp
- HORNE, R.R, 1974, Traverse fault control of base metal mineralisation in Irish and British Caledonides., *Geological Society of America Abstracts with Programs*, 6, 800-801
- HORNE, R.R., 1981, Trends in the Irish Mineral Industry 1971-1981 and the Geological Survey's role., *Mineral exploration in Ireland, Progress and developments 1971-81.*, BROWN, A.G., Irish Association for Economic Geology, Folens, Dublin., 7-14
- HORNE, R.R, GARDINER, P.R.R., PYNE, J.F., 1989, Mineral exploration and development in Ireland., Geological Survey of Ireland, 89/1, Information Circular, 16pp
- HORNE, R.R., 1981b, Mineral exploration and development in Ireland., *Mineral exploration and development in Ireland report series 81/2*, Geological Survey of Ireland.,
- HORNE, R.R., DHONAU, N.B., McARDLE, P. and GORMLEY, M., 1981, Ireland 1980., *World Mining Yearbook.*, Miller Freeman, San Francisco., 164-166.
- HORNE, R.R., 1975b, Transverse fault systems in fold belts and oceanic zones., *Nature*, 255, 620-621
- HORNE, R.R., CARTY, C., 1980, Irish coal: its characteristics and potential., *Proceedings of conference on "Coal and Industry. Dublin, March 1980.*, Institute for Industrial Research and Standards, Dublin 9., 1-9, 18
- HORNE, R.R., 1976, Transverse fault zones in the Irish Caledonides and other fold belts., *Proceedings of the Second International Conference on Basement Tectonics, Newark, Delaware, July 13-17, 1976.*, PODWYSOCKI and EARLE., 199-210
- HORNE, R., GARDINER, P.R.R AND O'MEARA M., 1978, Ireland - Mineral Resources, Department of Foreign Affairs Dublin, Department of Foreign Affairs Dublin, Fact Sheet 2/78,
- HORSNAIL, R.F., 1975, Strategic and tactical geochemical exploration in glaciated terrain: illustrations from Northern Ireland., *Prospecting in areas of glacial terrain*, JONES, M.J., Institution of Mining and Metallurgy, 16-31
- HORSNAIL, R.F., 1975, Strategic and tactical geochemical exploration in glaciated terrain: illustrations from Northern Ireland., *Prospecting in areas of glaciated terrain 1975*, JONES, M.J., London, Institution of Mining and Metallurgy, p. 16-31
- HOUGH, D., 1990, Ivernia West acquires Talc Technology., *GSI Industrial Minerals Newsletter*, 11, p2
- HOWARTH, R.J., 1972, The pattern recognition problem in applied geochemistry., *Geochemical Exploration 1972: Proceedings of the Fourth International Exploration Symposium, HELD IN London from 17th to 20th April 1972.*, JONES, M.J., Institution of Mining and Metallurgy., pp. 458
- HOWARTH, R.J., 1983, Statistics and data analysis in geochemical prospecting., *Handbook of Exploration Geochemistry.*, GOVETT, G.J.S., Elsevier, Amsterdam., 2, p. 437
- HOWES, M.J., BOLAND, M.A., FLEGG, A.M. and MacKENNA, K., 1988, Quarry directory. Active quarries and pits in Ireland., *Geological Survey of Ireland Report Series.*, RS88/3,
- HUDSON, R.G.S., SEVASTOPULO, G.D., 1966, A borehole section through the Lower Tournaisian and Upper Old Red Sandstone, Ballyvergin, Co. Clare., *Scientific Proceedings of the Royal Dublin Society*, 2 (Series A),
- HULL, E., 1905, On the available Coal resources of district G. (Ireland)., *Royal Commission on Coal Supplies. Final Report, Part 8.*,
- HULL, E., 1875, Notes on the haematites of the Counties of Cavan and Longford., *Journal of the Royal Dublin Society*, 6, 217-219
- HULL, E., 1871, The geological age of the Ballycastle Coalfield, and its relations to the Carboniferous rocks of the west of Scotland, with palaeontological notes by BAILY, W.H., *Journal of the Royal Geological Society of Ireland*, 2, 260-275
- HULL, E., 1871a, Observations on the results determined by the Royal Commissioners appointed to enquire into the coal resources of Great Britain and Ireland., *Journal of the Royal Geological Society of Ireland*, 3, 80-82
- HUTCHINGS, J., 1976, Tynagh - a geological review., *Irish Association for Economic Geology Newsletter.*, 9, December.,
- HUTCHINGS, J., 1979, The Tynagh deposit., *Irish Association for Economic Geology, Excursion handbook.*, 34-46
- HUTTON, D., ALSOP, I., DALY, S., KIRWIN, P., PHILLIPS, C. and EARLS, G., 2002, The Irish Dalradian: Stratigraphy, structure and lineaments., *Irish Association for Economic Geology Weekend Course 2002*

(Westport, Co. Mayo, Ireland) Abstracts Volume: Basement Controls on Mineralization in the Irish Orefield., Irish Association for Economic Geology., 25-24

- HUXLEY, T.H., WRIGHT, E.P., 1871, On a collection of fossil vertebrates from the Jarrow Colliery Co. Kilkenny., Transactions of the Royal Irish Academy, p.242
- IRISH MINERAL AND EXPLORATION GROUP, 1975, Mineral exploration, the urgent need for a national policy., Irish Mineral Exploration Group Dublin.,
- IRISH MINERAL AND EXPLORATION GROUP, 1975, A Policy for mineral exploration action overdue., Confederation of Irish Industry, July, 23,
- IXER, R.A., McARDLE, P. & STANLEY, C.J., 1990, Primary gold mineralization within metamorphosed iron ores, southeast Ireland., Geological Survey of Ireland Bulletin, 4, p221-226
- IXER, R.A., 2003 #, The petrography of the lead-zinc-copper ores at Crow island, Killarney. (In press).,
- JACKSON, J.S., 1968, Bronze Age copper mines on Mount Gabriel, West County Cork, Ireland., Archaeological Austriaca, 43, 92-114
- JACKSON, M.J., 1973, Base-metal mineralization in Ireland and Scotland and the formation of the Rockall Trough., Implications of continental drift to the Earth Sciences., TARLING, D.H. and RUNCORN, S.K., Academic Press, London., p581-97
- JACKSON, J.W., 1909, The diatomaceous deposit of the Lower Bann Valley, Co. Antrim and Co. Derry, etc., Men. Proc. Mnchr. Lit. Phil. Soc., 53, 10,
- JACKSON, J.S., 1980, Bronze age copper mining in counties Cork and Kerry, Ireland., Scientific Studies in Early Mining and Extractive Metallurgy., CRADDOCK, P.T., 174pp
- JACKSON, J.S., 1970, The use of stone in Irish Buildings., Technology Ireland, 2, 1, 23-26
- JACKSON, J.S., 1979, Metallic ores in Irish prehistory: copper and tin., The origins of Metallurgy in Atlantic Europe., RYAN, M.,
- JACKSON, J.S., 1971, Mining in Ireland - some guidelines from the past., Technology Ireland, 3, 30-33
- JACKSON, J.S., 1961, The Monaghan Coalfield in Nevill, W.E., The Westphalian in Ireland. Comptes Rendu 4th International Congress of the Carboniferous stratigraphic Geology, Heerlen, 1958, NEVILL, W.E., Heerlen, 1958, 453-460
- JACKSON, J.S., 1973a, Conservation., Mining Ireland, 1, 111-112
- JACKSON, J.S., 1974, Our Natural Resources., Management Journal of the Irish Management Institute, 21, 5 (May), 62-65 and 69
- JACKSON, J.S., 1965, The Upper Carboniferous (Namurian and Westphalian) of Kingscourt, Ireland., Scientific Proceedings of the Royal Dublin Society, 21, A, 131-152
- JACKSON, J.S., 1962, Report on palaeontological examination of drill cores from Tynagh.,
- JACOB, A.A., 1853, Journal of the Geological society of Dublin, 5, p.229-232
- JAMES, C.H., 1964, The potential role of mercury in modern geochemical prospecting., Mining Journal, London, 111, 23-32
- JENNER, J.K., 1909, The structure and stratigraphy of the Kish Bank Basin., Petroleum Geology of the Continental Shelf of Northwest Europe., ILLING, L.V. and HOBSON, G.D., Heyden and Sons Ltd., London., Transactions of the International Committee on Environmental indices, 72, 446-431
- JENNINGS, A.G., 1947, Barytes development in Sligo, Transactions of the Institute of Civil Engineers of Ireland, 73, 185-222
- JOHNSON, M.S., SIDES, A., 1991, Options and achievements in the revegetation of metal mine waste., Irish Association for Economic Geology, Dublin., Annual Review, 69-72
- JOHNSON, A.W., SHELTON, K.L., GREGG, J.M., SOMERVILLE, I.D. and WRIGHT, W.R., 2001, Fluid inclusion evidence for the presence of multiple fluids in Zn-Pb hosting carbonate rocks in the Irish Midlands: initial findings., Studies on ore deposits mineral economics and applied mineralogy., HAGNI, R.D., University of Missouri-Rolla Press., pp 18-30
- JOHNSTON, T.P., 1996, Inventory of active quarries, pits and mines in Northern Ireland., Geological Survey of Northern Ireland Technical Report GSNI/96/5,
- JOHNSTON, J.D., 1992, The fractal geometry of vein systems: the potential for ore reserve calculation., The Irish Minerals Industry 1980-1990., BOWDEN, A.A., EARLS, G., O'CONNOR, P.G. and PYNE, J.F., Irish Association for Economic Geology., 105-118
- JOHNSTON, J.D., COLLIER, D., MILLAR, G. and CRITCHLEY, M.F., 1996, Basement structural controls on Carboniferous-hosted base metal mineral deposits in Ireland. (Special Publication)., Recent advances in Lower Carboniferous geology., STROGEN, P., SOMERVILLE, I. and JONES, G.LL., Geological Society, London., 107, 1-21
- JOHNSTON, J.D., 1999, Regional fluid flow and the genesis of Irish Carboniferous base metal deposits., Mineralium Deposita, 34, 571-598
- JOHNSTON, J.D., 1995, A review of the structural controls of Irish carbonate-hosted base metal deposits., Models for carbonate-hosted base metal deposits. Extended abstracts, IAEG Weekend Course.,

- JONES, G.V., BRAND, S.F., 1986, The setting, styles of mineralization and mode of origin of the Ballinalack Zn-Pb deposit., *Geology and genesis of mineral deposits in Ireland.*, ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., Irish Association for Economic Geology, Dublin., 355-375
- JONES, G.L.L., EARLS, G., 1995, Excursion stratigraphic nomenclature., Irish carbonate-hosted Zn-Pb deposits (Guidebook Series)., ANDERSON, K., ASHTON, J., EARLS, G., HITZMAN, M. and TEAR, S., *Society of Economic Geologists.*, 21, 1
- JONES, G.L.L., 1992, Irish Carboniferous conodonts record maturation levels and the influence of tectonism, igneous activity and mineralisation., *Terra Nova*, 4, 238-244
- JONES, W.R., 1955, The Investigation of the Molybdenite Deposits at Murvey, Co. Galway.,
- JONES, D., LEYSHON, P.R., TOUGH, J.G., 1986, Statistical aspects of assay data from the Gortdrum Deposit, County Tipperary., *Irish Journal of Earth Sciences.*, 8, 1, B50
- JONES, G.L.L., FITZSIMONS, J., 1992, A pure dolomite deposit northeast of Cahir, Co. Tipperary., *The Irish Minerals Industry 1980-1990.*, BOWDEN, A.A., EARLS, G., O'CONNOR, P.G. & PYNE, J., Irish Association for Economic Geology, Dublin., 327-334
- JONES, G.V., BRODFER, N., 1981, The Ballinalack Zinc-Lead deposit, Co. Westmeath, Ireland., *Mineral exploration in Ireland, Progress and developments 1971-81.*, BROWN, A.G., Irish Association for Economic Geology, Folens, Dublin., p47-62
- JONES, W.B., 1982, The geological association of sulphide mineralization at Avoca, Co. Wicklow - a new interpretation based on field evidence., *Journal of Earth Science, Royal Dublin Society*, 5, 145-52
- JONES, G.L.I., 1979, Discovery of zinc lead mineralisation at Harberton Bridge, Co. Kildare, Ireland., *Transactions of the Institution of Mining and Metallurgy*, 89, B50
- JONES, W.B., 1986, Field evidence for ignimbrites in the Avoca volcanic belt., *Geology and genesis of mineral deposits in Ireland.*, ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., Irish Association for Economic Geology, Dublin., p83-87
- JORDAN, J., 2004, Derryarkin sand and gravel., *The Irish Mining and Quarrying Society.*, *Extractive Industry Ireland*, 2004, 15-17
- JUKES, J.B., 1863, Note on the way in which the calamine occurs at Silvermines, Co. Tipperary., *Journal of the Geological society of Dublin*, 10, 11-13
- KEADY, B., 1988, Large Underground Blast at Tara Mines Ltd., *Mining Magazine*, 88, 3, 118
- KEARNS, K.C., 1975, Some contributions of Irish Base Metal Mining., *Irish Geography*, 8, 126-131
- KEARY, R., 1977, Offshore mining., *Technology Ireland*, March 1977, 13-14
- KEIL, M., SENGPIEL, K.P., and MOLLAT, H., 1985, Test of modern methods of helicopter geophysics for prospecting for Pb-Zn ores in Ireland., *Transactions of the Institution of Mining and Metallurgy*, 94, B: Applied Earth Science, B14-19
- KELLY, D., 1988, The Ballymacadan and Loughlogery Hill Clay deposits near Cahir, County Tipperary, Ireland., *GSI Industrial Minerals Newsletter*, 5, March, 3
- KENDALL, J.D., 1893, *The iron-ores of Great Britain and Ireland.*, Crosby, Lockwood and Sons, London.,
- KENNAN, P.S., McARDLE, P., 1990, Influences on metallogenic models for the Irish Caledonides during the 1980's., *The Irish Minerals Industry - A review of the decade*, Abstracts volume and programme, Great Southern Hotel Galway, 21st - 23rd September 1990., Irish Association for Economic Geology,
- KENNAN, P.S., McARDLE, P., WILLIAMS, F.M. and DOYLE, E., 1986, A model for the genesis of metal deposits associated with the Leinster Granite, S.E. Ireland and a model for their genesis., *Geology and genesis of mineral deposits in Ireland.*, ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., Irish Association for Economic Geology, Dublin., 201-210
- KENNAN, P.S., McARDLE, P., WILLIAMS, F.M. and DOYLE, E.M., 1986, A review of metal deposits associated with the Leinster Granite and a model for their genesis., *Geology and genesis of mineral deposits in Ireland.*, ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J.F., Irish Association for Economic Geology, Dublin., p201-210
- KENNAN, P.S., 1978, The origin of the sulphide deposits in Leinster Granite., *Journal of Earth Science, Royal Dublin Society*, 1, 41-47
- KENNAN, P.S., McARDLE, P., GALLAGHER, V., MORRIS, J.H., O'CONNOR, P.G., O'KEEFE, W.G., REYNOLDS, N.A. AND STEED, G.M., 1987, A review of recent isotope research in mineralisation in Ireland., *Geological Survey of Ireland Bulletin*, 4, 1-10
- KENNAN, P.S., 1983, Tourmalinites from Belgium and from SE Ireland - a discussion., *Mineralogical Magazine*, 47, 236-238
- KENNAN, P.S., McARDLE, P., DOYLE, E. and WILLIAMS, F.M., 1983, The origin of stratabound mineral deposits on southeast Ireland., *Contributions made for the paratectonic Caledonides.*, *Economic Geology*,
- KENNAN, P.S., 1978, The sulphide deposits of the Leinster granite: a discussion on their origin., *Journal of Earth Science, Royal Dublin Society*, 1, 41-47

- KENNAN, P.S., McARDLE, P., GALLAGHER, V., MORRIS, J.H., O'CONNOR, P.G., O'KEEFFE, W.G., REYNOLDS, N. and STEED, G., 1988, A study of the contribution of isotope geology in the development of exploration strategy: Commission of the European Communities Resources Report, EUR 116628€ Luxembourg, Commission of European Communities, Luxembourg., 103p
- KENNEDY, J., 1999, Offshore Sand and Gravel - a New Resource for Ireland., North Atlantic Minerals Symposium Extended Abstracts Volume, 19th-22nd September 1999. Dublin, Ireland., STANLEY, G.A., Geological Survey of Ireland., 69-72
- KENNEDY, A., 1991, Recent Developments at Tara., Mining Magazine, 1991, 352-358
- KENNEDY, M.J., 1969, The metamorphic history of north Achill Island, Co. Mayo, and the problem of the origin of albite schists., Proceedings of the Royal Irish Academy, 67B, 11, 261-282
- KENNEDY, A., 1989, Tara mines re-equips for raised productivity., Mining Magazine, 160, 4, 262-268
- KENNEDY, M.J., 1980, Serpentine-bearing melange in the Dalradian of Co. Mayo and its significance in the development of the Dalradian basin., Journal of Earth Science, Royal Dublin Society, 3, 117-126
- KENNEDY, J., 2002, Offshore aggregates., Irish Mining and Quarrying Society., Extractive Industry Ireland, 2002, 103-107
- KENT, D., 1999, Gypsum at Knocknacran, Co. Monaghan, Ireland., North Atlantic Minerals Symposium Extended Abstracts Volume, 19th-22nd September 1999. Dublin, Ireland., STANLEY, G.A., Geological Survey of Ireland., 155-158
- KETTLE, L.J., 1920, Irish coal and coalfields., Institution of Civil Engineers of Ireland,
- KETTLE, L.J., 1922, 'Irish Coal and Coalfields' with maps and plates., Institution of Civil Engineers of Ireland, 46, p.51-108
- KIELY, P.V., FLEMING, G.A., 1969, Geochemical survey of Ireland; Meath-Dublin area., Proceedings of the Royal Dublin Society, 68, 1, B,
- KILFOIL, G., 2003, Combining geophysical data from Airborne Surveys, Ireland., NAMS 2003, Abstracts Volume, Dublin, Ireland: 1st September - 3rd September 2003., IGES-NAMS 2003 - Dublin, Ireland., 114-116
- KILLIAN, T., 1998, The EU and the extractive industries, those damned directives., Institute of Quarrying Northern Ireland Branch and Irish Mining and Quarrying Society., Extractive Industry Ireland, 1998, 121-123
- KINAHAN, G.H., 1889, Economic Geology of Ireland., Journal of the Royal Geological Society of Ireland, 8, 514pp
- KINAHAN, G.A., 1883, The mode of occurrence and winning of gold in Ireland., Scientific Proceedings of the Royal Dublin Society, 6, 263-85
- KINAHAN, G.H., 1872, Tertiary Iron Ore in Londonderry, at Moydamleght., Journal of the Royal Geological Society of Ireland, 3,
- KINAHAN, G.H., 1885b, Notes on the coal seams of Leinster and Tipperary coalfields., Scientific Proceedings of the Royal Dublin Society, 4, 364-372
- KINAHAN, G.H., 1885a, Notes on some of the Irish Crystalline iron ores., Scientific Proceedings of the Royal Dublin Society, 4, 306-317
- KINAHAN, G.H., 1904, Gold in Great Britain and Ireland (In discussion on MacLAREN, 1903)., Transactions of the Institute of Mining Engineers, 27, 129-34
- KINAHAN, G.H., 1903-1904, Notes on Mining in Ireland., 26, 265-285
- KINAHAN, G.A., 1886, Black Sand in the drift north of Greystones, Co. Wicklow., Journal of the Royal Geological Society of Ireland, 6, 111-6
- KINAHAN, G.H., 1883, On the possibility of gold being found in quantity in Co. Wicklow., Scientific Proceedings of the Royal Dublin Society, 39-42
- KINAHAN, G.H., 1860, On a reversed fault occurring in the Leinster Coalfield., Journal of the Geological society of Dublin, 8, p.213
- KINAHAN, G.H., 1895, The Iron ore resources of Co. Antrim., Transactions of the Manchester Geological Society, 22, 458-466
- KINAHAN, G.H., 1878, The gold and placer mines of Wicklow., Quarterly Journal of Science, 8, 189-94
- KINEHAN, G.H., 1885b, Notes on Coal Seams of the Leinster and Tipperary Coalfields., Scientific Proceedings of the Royal Dublin Society, 4, pp. 364-72
- KINGAID, J., 1857, A section across the coal beds of Leitrim., Journal of the Geological society of Dublin, 7, 301-302
- KINNAIRD, J.R., IXER, R.A., BARREIRO, B. & NEX, P.A., 2002, Contrasting sources for lead in Cu-polymetallic and Zn-Pb mineralization in Ireland: constraints from lead isotopes., Published on line DOI.10.1007/s00216-001-5., Mineralium Deposita,
- KIRWAN, R., 1789, Observations on coal mines., Transactions of the Royal Irish Academy, 2, 157-170
- KIRWAN, R., 1801, Report on the gold mines in the County of Wicklow., Transactions of the Dublin Society, 2, 129-157

- KIRWAN, R., 1796, The composition and proportion of carbon in bitumens and mineral coal., Transactions of the Royal Irish Academy, 6, 141-167
- KIWCAID, J., 1789, Observations on Coal Mines., Transactions of the Royal Irish Academy, 2, p.157-170
- KLAU, W., MOSTLER, H., 1986, The formation of the Alpine Middle and Upper Triassic Pb-Zn deposits, with some remarks on Irish carbonate-hosted base metal deposits., Geology and genesis of mineral deposits in Ireland., ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., Irish Association for Economic Geology, Dublin., 663-676
- KUCHA, H., WIECZOREK, A., 1984, Sulphide-carbonate relationships in the Navan (Tara) Zn-Pb deposit, Ireland., Mineralium Deposita, 19, 208-216
- KUCHA, H., 1988, Zn-Pb sulphides as rim-cements, filling cements and replacements of carbonate sediments, Moyvoughly, Ireland., Transactions of the Institution of Mining and Metallurgy, 97, B64-76
- KUCHA, H., 1987, Carbonate and silicate precursors of the sulphide mineralisation in the Navan Zn-Pb deposit, Ireland., Mineral Petrology.,
- KUCHA, H., 1989, Macrotectures, microtextures and carbonate-sulphide relationships in stratiform, carbonate-hosted Zn-Pb orebodies of Silvermines, Ireland., Mineralium Deposita, 24, 48-55
- KUERZL, H., O'CONNOR, P.J., 1988, Multivariate patterns derived from graphical analysis of regional geochemical data as an efficient guide to mineralization., Prospecting in areas of glaciated terrain 1988, MacDONALD, D.R. and MILLS, K.A., The Canadian Institute of Mining and Metallurgy., Data Interpretation., 469-484
- LAFRAMBOISE, P., 2005, Arcon Mining's Galmoy Mine concentrator., The Irish Mining and Quarrying Society., Extractive Industry Ireland, 2005, 22
- LALLY, P., CORDES, K. and STANLEY, G., 2003, Inventory of mine waste sites in the Republic of Ireland., NAMS 2003, Abstracts Volume, Dublin, Ireland: 1st September - 3rd September 2003., IGES-NAMS 2003 - Dublin, Ireland., 92-94
- LANE, E.L., 2001, Comparisons of carbonate-hosted zinc target types in eastern North America versus the Irish-type deposits., North Atlantic Minerals Symposium Extended Abstracts Volume, May 27-30, 2001., Geological Survey of Ireland., 75-78
- LARGE, D.E., 1991, Problems encountered in the application of geological models to the exploration of sediment-hosted massive sulphide deposits., Irish Association for Economic Geology, Dublin., Annual Review, 128-131
- LARGE, D.E., 1989, Metalliferous deposits discovered in Western Europe since 1955., Institution of Mining and Metallurgy, Bulletin, 988
- LARGE, D.E., 1983, Sediment-hosted massive sulphide lead-zinc deposits: an empirical model., Mineralogical Association of Canada, Short Course Handbook: Sediment-hosted stratiform lead-zinc deposit., SANGSTER, D.F., 8, p. 1-29
- LARGE, D.E., 1980, Geological parameters associated with sediment-hosted, submarine exhalative lead-zinc deposits: an empirical model for mineral exploration., Geologisches Jahrbuch, D40, p. 59-129
- LARSSON, J-O., 1999, Europe - a New Diamond Province?, North Atlantic Minerals Symposium Extended Abstracts Volume, 19th-22nd September 1999. Dublin, Ireland., STANLEY, G.A., Geological Survey of Ireland., 171-174
- LARTER, R.C.L., BOYCE, A.J., RUSSEL, M.J., 1981, Hydrothermal pyrite chimneys from the Ballynoe Baryte deposit Silvermines, Co. Tipperary, Ireland., Mineral Deposits., 16, 309-318
- LAVIGNE, M.J., 2004, The Cavanacaw gold mine, Co. Tyrone., Irish Association for Economic Geology: Weekend Course 2004, 15th-16th May, Bundoran. 'Sediment-Hosted Gold Deposits', Irish Association for Economic Geology, c/o Geological Survey of Ireland.,
- LAWRENCE, G., 1975, The use of Rb/Sr ratios as a guide to mineralization in the Galway granite, Ireland., Proceedings of Geochemical Exploration (Vancouver). Developments in Economic Geology, Special Publication No. 2, 353-370
- LEE, M.J., WILKINSON, J.J., 2002, Cementation, hydrothermal alteration and Zn-Pb mineralization of carbonate breccias in the Irish Midlands: Textural evidence from the Cooleen Zone, near Silvermines, Co. Tipperary., Economic Geology, 97, 653-662
- LEE, M.J., WILKINSON, J.J. & SANDERSON, D.J., 1998, Structural and geochemical controls on dolomite matrix breccia formation in the Irish Orefield., Abstracts Volume, Mineral Deposits Studies Group AGM, St. Andrews University., p32.
- LEE, M.J., WILKINSON, J.J. and EARLS, G., 2001, Textural and cathodoluminescence evidence for the origin of black matrix breccias in the Irish Zn-Pb orefields., Mineral deposits at the beginning of the 21st Century., PIESTRZYNSKI, A., Lisse, Balkema., p. 161-164
- LEE, M.J., WILKINSON, J.J. and BOYCE, A.J., 2001b, Regional fluid inclusion evidence for the evolution of hydrothermal systems in the southern Irish Midlands: a comparison of Zn-Pb deposits and prospects., XVI

- ECROFI European Current Research On Fluid Inclusions, Porto 2001. Abstracts., NORONHA, F., DORIA, A. and GUEDES, A., Faculdade de Ciências do Porto, Departamento de Geologia., 7, p. 253-255
- LEE, M.J., WILKINSON, J.J. and SANDERSON, D.J., 2000, Timing of dolomite breccia formation and mineralization in the Cooleen area, Silvermines, Ireland., Abstracts Volume, Mineral Deposits Studies Group AGM, Burlington House, London, UK.,
  - LEEDER, M.R., 1988, Recent developments in Carboniferous geology: a critical review with implications for the British Isles and northwest Europe., *Proceedings of the Geologists Association*, 99, 73-100
  - LEES, A., 1961, The Waulsortian reefs of Eire: a carbonate mudbank complex of lower carboniferous age., *Journal of Geology Dublin*, 69, 101-109
  - LEES, A.J., 1964, The structure and origin of the Waulsortian (Lower Carboniferous) 'reefs' of west-central Eire., *Philosophical Transactions of the Royal Society of London.*, 247, B, P. 482-531
  - LEGG, I.C., 1980, Mineral Deposits Map (provisional) of Northern Ireland. 1:253,440 2nd ed., Geological Survey of Northern Ireland,
  - LEGG, I.C., PYNE, J.F., NOLAN, C., McARDLE, P., FLEGG, A.M. and O'CONNOR, P.J., 1985, Mineral localities in the Dalradian and associated igneous rocks of the Co. Donegal, Republic of Ireland and of Northern Ireland., *Geological Survey of Ireland Report Series RS 85/3 (Mineral Resources).*, 88pp
  - LEGG, I.C., 1992, The Geological Survey of Northern Ireland and Mineral Exploration., *Irish Association for Economic Geology, Dublin.*, Annual Review, 37,
  - LEGG, I., 1992, Tertiary lignite deposits of Northern Ireland., *The Irish Minerals Industry 1980-1990.*, BOWDEN, A.A., EARLS, G., O'CONNOR, P.G. & PYNE, J., *Irish Association for Economic Geology, Dublin.*, 359-368
  - LEGGE, H., 1973, Revival - mining in Ireland., *Mining Ireland*, 1,
  - LeHURAY, A.P., CAULFIELD, J.B.D., RYE, D.M. and DIXON, P.R., 1987, Basement controls on sediment-hosted Pb-Zn deposits: A lead isotopic study of Carboniferous mineralization in Central Ireland., *Economic Geology*, 82, p. 1695-1709
  - LEPELTIER, C., 1969, A simplified statistical treatment of geochemical data by graphical representation., *Economic Geology*, 64, p. 538-550
  - LEWIS, H., COUPLES, G.D. & RUSSELL, M.J., 1995, Characterisation of fluid flow systems for Irish lead-zinc deposits - contributions from mass balance., *Transactions of the Institution of Mining and Metallurgy*, 104, B87-B156
  - LEWIS, H., ET AL., 1994, Irish lead-zinc deposits - A quantitative assessment of controls on size and character of mineralising flow systems., *Economic geology and beyond 2, Abstracts volume: Models for mineral deposits in sedimentary basins.*, FOSTER, R.P., London: Institution of Mining and Metallurgy, 1994., 38-39
  - LEYSHON, P.R., TOUGH, J.G., 1982, Anisotropy in some blasthole data from the Gortdrum Deposit, Republic of Ireland., *Economic Geology*, 77, 691-708
  - LEYSHON, P.R., CAZALET, P.C.D., 1976, Base metal exploration programme in Lower Palaeozoic volcanic rocks, Co. Tyrone, Northern Ireland., 85, B91-99
  - LIBBY, D.J., DOWNING, D.T.D., ASHTON, J.H., ORAM, R.A., O'MURCHU, D.O., DALLAS, W.G. & MAYBURY, M., 1985, The Tara Mines story., *Transactions of the Institution of Mining and Metallurgy*, 94, A (Min. industry), 1-41
  - LLOYD, MILLS, A., 1809, Discovery of gold in Ireland.,
  - LLOYD, J., 1795, An account of the late discovery of native gold in Ireland., *Philosophical Transactions of the Royal Society of London.*, 86, 34-38
  - LOCKLIN, J.A., 1983, Petrologic analysis of core samples from the Silvermines mineral district, Co. Tipperary., *Getty Research Centre, Internal Report 83/421.*, 28pp
  - LONG, B., 1998, Diamond exploration in Donegal., *Institute of Quarrying Northern Ireland Branch and Irish Mining and Quarrying Society.*, *Extractive Industry Ireland*, 1998, 98-99
  - LONG, C.B., FLEGG, A.M. and CRILLY, K., 1986, The geological setting and economic potential of a green marble (Dalradian) at Lough Anaffrin, County Mayo, Ireland., *Geological Survey of Ireland Report Series 86/1, Authority of the Minister for Energy.*, pp. 27
  - LOUGHIN, W.P., 1992, Remote Sensing in Mineral Exploration., *Irish Association for Economic Geology, Dublin.*, Annual Review, 398-39
  - LOVELL, D., 1992, The Ballynoe Open Pit Barite Operation., *GSI Industrial Minerals Newsletter*, 17, May, 2-3
  - LOVELL, J.S., HALE, M. & WEBB, J.S., 1979, Soil-air disequilibria as a guide to concealed mineralisation at Keel, Eire., *Prospecting in areas of glaciated terrain 1979.*, I.M.M London., 45-50
  - LOWENSTEIN, P.L., HOWARTH, R.J., 1972, Automated colour-mapping of three-component systems and its application to regional geochemical reconnaissance., *Geochemical Exploration 1972: Proceedings of the Fourth International Exploration Symposium, HELD IN London from 17th to 20th April 1972.*, JONES, M.J., *Institution of Mining and Metallurgy.*, pp. 458



- LOWTHER, J.M., BALDING, A.B., DUNPHY, S. and McEVOY, F.M., 1999, The Galmoy mine: Some geological aspects of development from 1995 to 1999., *Mineral deposits: Processes to processing.*, STANLEY, C.J. ET. AL., Rotterdam, Balkema., 2, p. 881-884
- LOWTHER, J.M., BALDING, A.B., McEVOY, F.M., DUNPHY, S., MacEOIN, P.M. and BOWDEN, A.A., 2003, The Galmoy zinc-lead orebodies: Structure and metal distribution - clues to the genesis of the deposit., *Europe's Major Base Metal Deposits.*, KELLY, J.G., ANDREW, C.J., ASHTON, J.H., BOLAND, M.B., EARLS, G., FUSCIARDI, L. and STANLEY, G., Dublin, Irish Association for Economic Geology., p. 1-30
- LUECKE, N., 1984, Soil geochemistry above a lithium pegmatite dyke at Aclare, Southeast Ireland., *Irish Journal of Earth Sciences.*, 6, 205-211
- LUECKE, W., 1981, Lithium pegmatites in the Leinster Granite (southeast Ireland)., *Chemical Geology*, 34, p195-233
- LUKE, M., 1822, Examination of Captain Mathews Luke rejecting the Cappagh Copper Mine and the veins adjacent thereto by R. Fraser, 1822., Halliday pamlet collection, Royal Irish Academy, 1239, 13,
- LUUKKONEN, K.T., 2003, Tara Mines - Leading Zinc Mine in Europe., NAMS 2003, Abstracts Volume, Dublin, Ireland: 1st September - 3rd September 2003., IGES-NAMS 2003 - Dublin, Ireland., 116-117
- LYBURN, E. ST. JOHN., 1901, Prospecting for gold in Co. Wicklow and an examination of Irish rocks for gold and silver., *Scientific Proceedings of the Royal Dublin Society*, 9, 422-433
- LYDON, J.W., 1983, Chemical parameters controlling the origin and deposition of sediment-hosted stratiform lead-zinc deposits., *Short Course in Sediment-hosted stratiform lead-zinc deposits, (Annual Meeting).*, SANGSTER, D.F., Mineralogical Association of Canada., p. 175-250
- LYDON, J.W., 1986, A model for the generation of metalliferous hydrothermal solutions in a sedimentary basin, and its application to the Irish Carboniferous base metal deposits., *Geology and genesis of mineral deposits in Ireland.*, ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., Irish Association for Economic Geology, Dublin., pp.555-78
- LYNCH, P., 1998, Double A standards., Institute of Quarrying Northern Ireland Branch and Irish Mining and Quarrying Society., *Extractive Industry Ireland*, 1998, 57
- LYNE, M., 2003, Valentia slate quarry re-opened., *The Irish Mining and Quarrying Society.*, *Extractive Industry Ireland*, 2003, 91-92
- MacCARTHY, I.A.J., 1995, Devonian and Carboniferous successions of the Munster and South Munster Basins, Southern Ireland., *Irish carbonate hosted Zn-Pb deposits, Society of Economic Geologists, Guidebook Series.*, 21,
- MacDERMOT, C.V., SEVASTOPULO, G.D., 1972, Upper Devonian and Lower Carboniferous stratigraphical setting of Irish mineralization., *Geological Survey of Ireland Bulletin*, 1, 267-80
- MacKAY, R.A., 1946, The control of impounding structures on ore deposition., *Economic Geology*, 41, p 13-46
- MacLAREN, M.J., 1903, The occurrence of gold in Great Britain and Ireland., *Transactions of the Institute of Mining Engineers*, 25, 435-508
- MALLET, F.R., 1881, Ferruginous beds of N.E. Ulster in relation to Indian laterite., *Geological Survey of Ireland*, 14,
- MALLET, W., 1850, The minerals of the Auriferous Districts of Wicklow., *Journal of the Geological society of Dublin*, 4, 2, 269-77
- MANNING, P.I., 1971, Saliferous measures in the Barnes Borehole, Northern Ireland (Abstract)., *International Sedimentological Congress Heidelberg.*,
- MANNING, P.I., 1960, New mineral records from Co. Down, Northern Ireland., *Irish Naturalists Journal*, 13, 167
- MANNING, P.I., WILSON, H.E., 1975, The stratigraphy of the Larne borehole, Co. Antrim., *Bulletin of the Geological Survey of Great Britain No. 50.*, 50, 1-50
- MAURICE, Y.T., MEYER, W.T., 1975, Influence of preglacial dispersion on geochemical exploration in Co. Offaly, Central Ireland., *Journal of Geochemical Exploration*, 4, 315-330
- MAX, M.D., 1970, Some mineralisation in part of northwest Co. Mayo., *Scientific Proceedings of the Royal Dublin Society*, 3, 26, 269-273
- MAX, M.D., LONG, C., 1979, Basic volcanic rocks in the Dalradian of Ireland., *The Caledonides of the British Isles - Reviewed*, HARRIS, A.L., HOLLAND, C.H. and LEAKE, B.E., *Geological Society of London.*, Special publication 8., 585-589
- MAX, M.D., TALBOT, V., 1986, Molybdenum concentrations in the western end of Galway Granite and their structural setting., *Geology and genesis of mineral deposits in Ireland.*, ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J.F., *Irish Association for Economic Geology.*, 177-186
- MAX, M.D., 1985, Connemara Marble and the industry based upon it., *Geological Survey of Ireland Report Series RS 85/2, Authority of the Minister for Energy.*, *Geological Survey of Ireland Report Series.*, 32pp
- MAX, M.D., 1976, The iron ore deposits in the Republic of Ireland., *Iron ore deposits of Europe.*, 1, 205-206
- MCARDLE, P., GARDINER, P.R.R., 1990, Irish Coalfields - Progress and Problems in the 1980's., *Irish Minerals Industry - A Review of the Decade. Abstracts Volume and Programme.*, *Irish Association for Economic Geology, Abstracts Volume and Programme.*, 5,

- McARDLE, P., KENNAN, P.S., 1989, Geological Setting of Tantalum-Bearing Mineralization in the Caledonides of SE Ireland., Lanthanides, Tantalum and Niobium, MOLLER, P., CERNY, P., SAUPE, F., Springer-Verlag Berlin Heidelberg.,
- McARDLE, P., REYNOLDS, N., SCHAFFALITZKY, C. & BELL, A.M., 1986, Controls on mineralization in the Dalradian of Ireland., Geology and genesis of mineral deposits in Ireland., ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J.F., Irish Association for Economic Geology, Dublin., p31-43
- McARDLE, P., WARREN, W.P., 1987, Iron formation as a bedrock source of gold in southeast Ireland and its implications for exploration., Transactions of the Institution of Mining and Metallurgy, 96, B: Applied Earth Science, B195-200
- McARDLE, P., MORRIS, J.H. & GARDINER, P.R.R., 1987, Gold in Ireland: the potential for mineralization., Geological Survey of Ireland Report Series RS 87/1., Authority of the Minister for Energy., 91pp
- McARDLE, P., NAYLOR, D., 1977, Geological indications of future potential in Irish mining., Technology Ireland, 1, September 1977., 20-23
- McARDLE, P., FITZELL, M., OOSTEROM, M.G., O'CONNOR, P.J. & KENNAN, P.S., 1989, Tourmaline as a potential host rock for gold in the Caledonides of southeast Ireland., Mineralium Deposita, 24, p154-159
- McARDLE, P., KENNAN, P.S., 1987, The distribution, genesis and potential of tungsten, lithium and associated metal deposits on the S.E. margin of the Leinster Granite., Geological Survey of Ireland Bulletin, 4, p27-40
- McARDLE, P., KENNAN, P.S., 1988B, The development of stratabound sulphides and related proto-ores in the Irish Caledonides (abstract)., Handbook of the Joint Annual Meeting of MAC/GAC, St. John's Newfoundland, June 1988., June,
- McARDLE, P., 1979b, Sedimentary and tectonic constraints on ore genesis at Avoca, Ireland (abstracts)., Transactions of the Institution of Mining and Metallurgy, 88, B: Applied Earth Science, 77
- McARDLE, P., WILLIAMS, F.M., DOYLE, E.M., KENNAN, P.S., MOORE-LEWY, G., GALLAGHER, V. and O'CONNOR, P.J., 1989, The metallogenic relationships of mineralization along the southeast margin of the Leinster granite., Geological Survey of Ireland Report Series RS 86/2 (Mineral Resources), Authority of the Minister for Energy., pp. 57
- McARDLE, P., KENNEDY, M.J., 1985, The East Carlow deformation zone and its regional implications., Geological Survey of Ireland Bulletin, 3, p237-255
- McARDLE, P., 1992, Irish coalfields - technical developments in the 1980's., The Irish Minerals Industry 1980-1990., BOWDEN, A.A., EARLS, G., O'CONNOR, P.G. & PYNE, J., Irish Association for Economic Geology, Dublin., 341-358
- McARDLE, P., 1990, Geological basis for diversification in Irish metal mining., Minerals, materials and industry: Papers presented at the Fourteenth Congress of the Council of Mining and Metallurgical Institutions, organized by the Institution of Mining and Metallurgy and held in Edinburgh, Scotland, from 2 to 6 July, 1990., Institution of Mining and Metallurgy, 265-278
- McARDLE, P., 1987, Rare earths in Ireland - the potential for deposits., Geological Survey of Ireland Report Series RS87/2, Authority of the Minister for Energy., 7pp
- McARDLE, P., KENNAN, P.S., 1992, Influences on metallogenic models for the Irish Caledonides during the 1980's., The Minerals Industry 1980-1990., BOWDEN, A.A., EARLS, G., O'CONNOR, P.G. and PYNE, J.F., Irish Association for Economic Geology., 13-20
- McARDLE, P., 1989, Geological setting of gold mineralization in the Republic of Ireland., Transactions of the Institution of Mining and Metallurgy, 98, B: Applied Earth Science, B7-12
- McARDLE, P., WARREN, W.P., 1987, The bedrock source and emplacement of placer gold at Goldmine River Valley, Co. Wicklow., Geological Survey of Ireland Bulletin, 4, p11-26
- McARDLE, P., 1990, A review of Carbonate hosted base metal-barite deposits in the Lower Carboniferous of Ireland., Chronique de la Minière, Recherche., 500, September 1990, 3-29
- McARDLE, P., O'CONNOR, P.J., GARDINER, P.R.R., MOORE-LEWY, G., 1988, A note concerning the influence of the Leinster granite on the development of mineralisation in the Upper Palaeozoic cover sequence., Irish Association for Economic Geology, Dublin., Annual Review, 103-105
- McARDLE, P., O'CONNOR, P.J., 1987, Variable relationships between mineralization and shear zones in the Caledonian of Ireland., Newsletter of the Geological Society of London, 16, 5, 28
- McARDLE, P., FLEGG, A.M., DHONAU, N.B. and PYNE, J., 1984, Barytes in Ireland: review and prospects for future discoveries., Transactions of the Institution of Mining and Metallurgy, 93, A135-141
- McARDLE, P., 1993, Evolution and preservation of volcanogenic sulphides at Avoca, southeast Ireland., Transactions of the Institution of Mining and Metallurgy, 102, B149-163
- McARDLE, P., ET AL., 1996(in press), Gold in Ireland: location and potential., Geological Survey of Ireland Report Series., Authority of the Minister for Energy.,
- McARDLE, P., 1984, Metallogeny of the Irish Republic., Explanatory memoir of the metallogenic map of Europe and neighbouring countries., UNESCO, Paris., 6-10

- McARDLE, P., 1979, Contribution to Badham (1978)., Transactions of the Institution of Mining and Metallurgy, 88, B: Applied Earth Science, B69-B74
- McARDLE, P., GERAGHTY, M.F., GARDINER, P.R.R., 1992, An evaluation of the potential for economic coal deposits in part of County Wexford., Geological Survey of Ireland Report Series., 92, 13pp
- McARDLE, P., 1986, Favourable environments for gold mineralization in Ireland., Irish Association for Economic Geology, Dublin., Annual Review, 24-26
- McARDLE, P., 1983, Irish coal resources., BEAM, 1, (5) 1983, 32-35
- McARDLE, P., 1979a, Slumped sulphide deposits at Avoca, Ireland, and their significance (Discussion of)., Transactions of the Institution of Mining and Metallurgy, 88B, B72
- McARDLE, P., KEARY, R., 1986, Offshore coal in the Kish Bank Basin: its potential for commercial exploration., Geological Survey of Ireland Report Series RS 86/3, Authority of the Minister for Energy., 45pp
- McARDLE, P., 1996, The Avoca volcanogenetic deposit, Southeast Ireland., Irish Association for Economic Geology Weekend Course, May 1996., Irish Association for Economic Geology,
- McARDLE, P., KENNAN, P.S., 1988, Controls on the occurrence and distribution of tungsten and lithium deposits on the southeast margin of the Leinster Granite, Ireland., Mineral deposits in the European Community., BOISSONNAS, J. and OMENETTO, P., BERLIN-HEIDELBERG-NEW YORK: SPRINGER 1988.,
- McARDLE, P., 1980, Les gisements de plomb, de zinc et de cuivre dans les formations carbonates de Carbonifere inferior d'Irlande., Gisements de Plomb et Zinc en Milieu Sedimentaire Carbonate et Detntique en Europe, Occidentale., Chronique de la Miniere, Recherche., 454, 16-18,
- McARDLE, P., 1978a, The significance of base-metal mineralization in the Dalradian of Donegal, Ireland (abstract)., 87, B34
- McARDLE, P., 1978b, L'exploitation des mines en Irlande., Industrie Minerals., Fewler 1978., 61-69
- McCAFFREY, K.J.W., JOHNSTON, J.D., 1996, Fractal analysis of a mineralised vein deposit: Curraghinalt gold deposit, Co. Tyrone., Mineralium Deposita, 31, 52-58
- McCALLIEN, W.J., 1935, The metamorphic rocks of Inishowen, Co. Donegal., Proceedings of the Royal Irish Academy, 43B, 407-442
- McCANN, N., 1989, Lignite in Ireland., Irish Association for Economic Geology, Dublin., Annual Review, 110
- McCANNELL, J.D., 1957, Gold in Ireland., Press release on behalf of Can-Erin Mines Ltd., January 29th, 1957,
- McCARTHY MEADOWS, J., 1874, The Leinster Coal Fields., Geological Magazine, March 1874,
- McCONNELL, P., 2002, Blasting practices., The Irish Mining and Quarrying Society., Extractive Industry Ireland, 2002, 31-33
- McCONNELL, B.J., 1991, Geochemistry and mineralogy of volcanic host rocks as indicators of massive sulphide genesis at Avoca, southeast Ireland., Irish Journal of Earth Sciences., 11, 43-52
- McCULLOUGH, H.M., 1981, Employment and expenditure in mineral exploration in Ireland 1971 - 1981., Mineral exploration in Ireland, Progress and developments 1971-81., BROWN, A.G., Irish Association for Economic Geology, Folens, Dublin., 15-18
- McCULLOUGH, H., 1987, Ireland as a Base., Ireland - A Golden Opportunity., Irish Mining and Exploration Group., 3, 50-54
- McDOWELL, G., 1853, On the Wolfhill and Madubeagh Coalfields Queens Country., Journal of the Geological society of Dublin, 9, p.7-8
- McELDUFF, B., JOHNSTON, J.D., 1989, Bedrock occurrence of Platinum group minerals (PGMS) in Ireland., Annual Review 1989, Irish Association for Economic Geology., p. 111
- McGURK, T., ASHTON, J.H. and FLYNN, M., 2002, Tara Mines., The Irish Mining and Quarrying Society., Extractive Industry Ireland, 2002, 67-69
- McKILLEN, T.N., DAUGHTRY, K.L., 1969, Geology of the Moate Area - One inch to one mile geological map prepared for Gortdrum Mines Ltd.,
- McLoren, J.M., 1903, The occurrence of gold in Great Britain and Ireland., Transactions of the North of England Institute of Mining and Mechanical Engineers,
- McMAHON, T.J., CARROLL, N., 1990, The Knocknacran Project., The Engineers Journal, 43 (1/2), p26-32
- McMEADOWS, J., 1877, The Leinster Coalfield., Journal of the Royal Geological Society of Ireland, 4, 10-19
- McMICHAEL, B., 1990, Industrial minerals of Eire., Industrial Minerals, 274, p33-53
- McMOORE, J., 1975, Fault tectonics at Tynagh mine, Ireland., Transactions of the Institution of Mining and Metallurgy, 84, B141-145
- M'DOWELL, G., 1860, The Wolfhill and Modubeagh Coalfields, Queen's County., Journal of the Geological society of Dublin, 9, 7-8
- MEADOWS, J.H., 1866, On the Leinster Coal Field., Proceedings of the South Wales Institution of Engineers, 4, 166-170
- MEADOWS, J.McC., 1873, The Leinster Coal-Fields, Royal Dublin Society, 4, p.10-20
- MEADOWS, J.H., 1877, The Leinster Coalfield., Journal of the Geological society of Dublin, 4, 10-19

- MEERE, P.A., BANKS, D.A., 1997, Upper crustal fluid migration: An example from the Variscides of S.W. Ireland., *Journal of the Geological Society of London*, 154, 975-985
- MEIGHAN, I.G., IXER, R.A., 1980, A further note on the molybdenite mineralization at Croreagh Quarry, Co. Down., *Irish Naturalists Journal*, 20, 78
- MEIGHAN, I.G., GILL, J.L. and NEESON, J.C., 1979, An occurrence of molybdenite in the Newry Igneous Complex, Co. Down., *Irish Naturalists Journal*, 19, 426-427
- MELDRUM, A.H., 1987, Financing mineral exploration and development., Ireland - A Golden Opportunity., *Irish Mining and Exploration Group.*, 3, 40-47
- MELDRUM, A.H., 1979, The development of the Irish Mining and Exploration Industry., *Irish Mining and Exploration; Group Conference Report C.*, 11, 28-50
- MENUGE, J.F., FEELY, M. and O'REILLY, C., 1997, Origin and granite alteration effects of hydrothermal fluid: isotopic evidence from fluorite veins, Co. Galway, Ireland., *Mineralium Deposita*, 32, 34-43
- MERCY, E.L.P., 1960, Geochemistry of the older granodiorites and the Rosses granitic ring complex, Co. Donegal, Ireland., *Transactions of the Royal Society of Edinburgh*, 64, 101-138
- MERTIE, J.B., 1954, The Gold pan: a neglected geological tool., *Economic Geology*, 49, p. 639-651
- MEYER, W.T., EVANS, D.C., 1979, Dispersions of mercury and associated elements in a glacial drift environment at Keel., *Prospecting in areas of glaciated terrain.*, JONES, M.J., London, I.M.M. 1973, 127-128
- MILLER, J.K., CAZALET, P.C.D., 1979, Barium geochemistry in Irish Mineral Exploration., *Prospecting in areas of glaciated terrain 1979.*, I.M.M. London., 16-21
- MILLER, J.K., 1984, Model for clastic indicator trains in till., *Prospecting in areas of glaciated terrain 1984.*, *Institution of Mining and Metallurgy.*, 69-78
- MILLS, H., HALLIDAY, A.N., ASHTON, J.H., ANDERSON, I.K. and RUSSELL, M.J., 1987, Origin of a giant orebody at Navan, Ireland., *Nature*, 327, 6119, p. 223-225
- MILLS, A., 1975, A mineralogical account of the native gold lately discovered in Ireland., *Philosophical Transactions of the Royal Society of London.*, 38-45
- MILLS, A., 1802, Second report on the Wicklow gold mines., *Transactions of the Dublin Society*, 2, 2, 81-97
- MILLS, A., 1800, Mineralogical account of the native gold lately discovered in Ireland with a map., *Transactions of the Royal Society of London*, 2, 1, 454-467
- MILLS, H., RUSSELL, M.J. and HALLIDAY, A.N., 1986, Isotopic tests for the genesis of the Navan orebody (abs)., *Terra Cognita*, 6, p. 133
- MILLS, A., KING, T. & WEAVER, T., 1801, Report on Gold mines in Co. Wicklow., *Transactions of the Dublin Society*, 2, 2, 131-148
- MILNEOIR, A., McARDLE, P., 1990, Gold mineralization in Ordovician volcanic rocks at Kilmacoo, Co. Wicklow., *The Irish Minerals Industry - A review of the decade*, Abstracts volume and programme, Great Southern Hotel Galway, 21st - 23rd September 1990., *Irish Association for Economic Geology*,
- MILNER, A.L., McARDLE, P., 1992, Gold mineralization in Ordovician volcanic rocks at Kilmacoo, Co. Wicklow: its exploration and geological controls., *The Irish Minerals Industry 1980-1990.*, BOWDEN, A.A., EARLS, G., O'CONNOR, P.G. and PYNE, J.F., *Irish Association for Economic Geology.*, 51-64
- MISCAMPBELL, A., 1894, The Salt Industry of Carrickfergus., *Transactions of the Institute of Mining Engineers*, 7,
- MISENER, D.J., DAVITT, T., 2002, Magnetics in Ireland., *Irish Association for Economic Geology Weekend Course 2002 (Westport, Co. Mayo, Ireland) Abstracts Volume: Basement Controls on Mineralization in the Irish Orefield.*, *Irish Association for Economic Geology.*, 35-38
- MITCHELL, W.I., 1983, High-grade dolomite deposits in the Belcoo-Boho area of Co. Fermanagh., *Open File Report.*, *Geological Survey of Northern Ireland.*, 68,
- MOLES, N., NAWAZ, R., 1996, Harmotome associated with Tertiary dyke intrusion in mineralization breccia at Newtownards, Northern Ireland., *Irish Journal of Earth Sciences.*, 15, 145-153
- MOLES, N.R., SCHAFFALITZKY, C., 1992, Gold exploration methodologies and target definition in the Donegal Dalradian., *The Irish Minerals Industry 1980-1990.*, BOWDEN, A.A., EARLS, G., O'CONNOR, P.G. and PYNE, J.F., *Irish Association for Economic Geology.*, 119-134
- MOON, C.J., HALE, M., 1984, Geochemical dispersion patterns of Chalcophile pathfinder elements associated with mineral deposits in glaciated terrain of the British Isles., *Prospecting in areas of glaciated terrain 1984.*, *Institution of Mining and Metallurgy.*, 79-102
- MOON, C.J., HALE, M., 1983, Geochemical dispersion patterns associated with sulphide mineralization at Avoca, Eire., *Journal of Geochemical Exploration*, 19, 663-677
- MOORBATH, S., 1962, Lead isotope abundance studies on mineral occurrences in the British Isles and their geological significance., *Transactions of the Royal Society of London*, 254a, 295-360
- MOORE, G.W., 1965, History of the Tynagh discovery., *West. Miner*, 38, November 1965, 40-1
- MOORE, J.McM., 1980, Joint pattern interpretation: a possible aid to exploration in Ireland., *Transactions of the Institution of Mining and Metallurgy*, 89, 42-43

- MOORE, G.W., 1963, Northgate history and discovery of Tynagh orebodies., Canadian Mining Journal, 84, 51-52
- MORLEY, C.T., 1989, Exploration for lignite at Lough Beg. County Antrim., Irish Journal of Earth Sciences., 10, 1, 85-86
- MORLEY, C.T., 1989, Perlite, Northern Ireland Geological Survey of Ireland, Industrial Minerals Newsletter., 9, 2-3
- MORLEY, C.T., 1992, The exploration and development of perlite rock in Co. Antrim, Northern Ireland., The Irish Minerals Industry 1980-1990., BOWDEN, A.A., EARLS, G., O'CONNOR, P.G. & PYNE, J., Irish Association for Economic Geology, Dublin., 335-340
- MORRIS, J.H., 1987, Manganese as an Exploration target: Part 1., GSI Industrial Minerals Newsletter, 2, May, 2
- MORRIS, J.H., 1988, Ireland., International Gold Mineralisation Liaison Group Newsletter, 7, 66pp
- MORRIS, J., PARKES, M., 2001, Survey of historic mine workings exposed in McQuaid's Quarry, Lemgare, Clontibret, Co. Monaghan., Journal of the Mining Heritage Trust of Ireland, 1, November 2001, 57-60
- MORRIS, J.H., BROWN, K., 2001, The man engine mine house, Mountain Mine, Allihies, Co. Cork., Journal of the Mining Heritage Trust of Ireland, 1, November 2001, 39-48
- MORRIS, J.H., STEED, G.M., 1986, Gold-antimony mineralization in Ordovician greywackes near Clontibret, Co. Monaghan., Irish Association for Economic Geology, Annual Review 1986., Irish Association for Economic Geology, Dublin., 27, Review 1986,
- MORRIS, J.H., 1987, Ireland., International Gold Mineralisation Liaison Group Newsletter, 4, 3-4
- MORRIS, J.H., 1984, The metallic mineral deposits of the Lower Palaeozoic Longford-Down inlier in the Republic of Ireland., Geological Survey of Ireland Report Series RS 84/1., 72pp.
- MORRIS, J.H., 2001, An 1854 catalogue of mines and mineral occurrences in Ireland., Journal of the Mining Heritage Trust of Ireland, 1, November 2001, 25-28
- MORRIS, J.H., 1987, Manganese as an exploration target: part 2., GSI Industrial Minerals Newsletter, 3, Sept., pp. 2
- MORRIS, J.H., STEED, G.M. and WILBUR, D.G., 1986, The Lisglassan-Tullybuck deposit, Co. Monaghan: Sb-As-Au vein mineralization in Lower Palaeozoic greywackes., Geology and genesis of mineral deposits in Ireland., ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J.F., Irish Association for Economic Geology., 103-120
- MORRIS, J.H., 1986, Ireland., International Gold Mineralisation Liaison Group Newsletter, 2, April, 9-10
- MORRIS, J.H., STEED, G.M. and WILBUR, D.G., in press: 1984, Gold in the hills of Co. Monaghan., Irish Association for Economic Geology Special Publication.,
- MORRISSEY, C.J., ROMER, D.M., 1973, Mineral exploration in glaciated terrain., Prospecting in areas of glaciated terrain., JONES, M.J., Institution of Mining and Metallurgy, London., p. 45-53
- MORRISSEY, C.J., 1987, Why explore in Ireland?, Ireland - A Golden Opportunity., Irish Mining and Exploration Group., 1, 16-17
- MORRISSEY, C.J., PATTERSON, J.M., STEED, G.M. and WHEATLEY, C.J., 1969, Contributed remarks to "Structural Controls of base metal mineralization in Ireland in relation to Continental Drift" by M.J. Russell., Transactions of the Institution of Mining and Metallurgy, 78, B, pp. 48-51
- MORRISSEY, C.J., WHITEHEAD, D., 1971, Origin of the Tynagh residual orebody., Proceedings of the Ninth Commonwealth Mining and Metallurgical Congress 1969., Institution of Mining and Metallurgy, London.,
- MORRISSEY, C.J., 1977, Reflections on ores and the apparent scarcity of oil in Irish Carboniferous sediments., Proceedings of the forum on oil and ore in sediments, GARRARD, P., London, Imperial College, department of geology, 1977, 147-50
- MORRISSEY, C.J., DAVIS, G.R. & STEED, G.M., 1971, Mineralisation in the Lower Carboniferous of Central Ireland., Transactions of the Institution of Mining and Metallurgy, 80, B174-185
- MULHALL, C.M., BAKER, S., BOYCE, A.J. and SEVASTOPULO, G.D., 2001, Regional dolomite at Newcastle West, Co. Limerick, Ireland and its implications for the models of fluid flow related to base-metal mineralization in Ireland., GSA 2001,
- MULLANE, M.M., KINNAIRD, J.A., 1998, Synsedimentary mineralisation at the Ballynoe barite deposit, near Silvermines, Co. Tipperary, Ireland., Transactions of the Institution of Mining and Metallurgy, 107, p. B48-61
- MURPHY, G.J., 1959, The Avoca enterprise Part 2 - The geology of the mineralized areas., Mine and Quarry Engineering, 25, 330-38
- MURPHY, J., 1998, Where the granite is green., Institute of Quarrying Northern Ireland Branch and Irish Mining and Quarrying Society., Extractive Industry Ireland, 1998, 135
- MURPHY, T., 1962, Some unusual low bouguer anomalies of small extent in Central Ireland and their connections with geological structure., Geophysical Prospecting, 10, 258-70
- MURPHY, G.J., 1959, The Avoca enterprise Part 1 - Historical and pre-production developments, Part 2 - The Geology of the mineralised area, Part - 3 Underground mining methods., Mine and Quarry Engineering, (Part1)290-295,(Part2)330-336,(Part3)378-391.

- MURRAY, J., 1971, Mining in the National Economy., Technology Ireland, October 1971,
- NAGGER, M.H., ATHERTON, M.P., 1970, The composition and metamorphic history of some aluminium silicate bearing rocks from the aureoles of the Donegal Granites., *Journal of Petrology.*, 11, 549-589
- NAWAZ, R., 1972, Melanterite from the Lough Allen Coalfield, Co. Roscommon., *Irish Naturalists Journal*, 17, 279-280
- NAWAZ, R., 1984, New data on celestite from Northern Ireland., *Mineralogical Magazine*, 48, 565-566
- NAWROCKI, P.E., ROMER, D.M., 1979, A buried anomaly associated with a float train in Central Ireland., *Prospecting in areas of glaciated terrain 1979.*, I.M.M. London, 40-44
- NAYLOR, D., 1981, Ireland's natural resources: The work of the Geological Survey., *Bulletin of the Department of Foreign Affairs.*, 978, July/August 1981, 11-14
- NAYLOR, D., 1985, Irish Sea and West Coast Basins., *Irish Association for Economic Geology, Dublin.*, Annual Review, 18-25
- NEVILL, W.E., 1962, Stratigraphy and origin of the Cork Red Marble., *Geological Magazine*, 94, 481-491
- NEVILL, W.E., 1985b, The Westphalian in Ireland, *Compres Rendu.*, International Congress of Carboniferous Stratigraphy and Geology, Heerlen, 1958., Heerlen, 1958., 2, 423-231
- NEVILL, W.E., 1956, The Millstone Grit and Lower Coal Measures of the Leinster Coalfield., *Proceedings of the Royal Irish Academy*, 58B, 1, 1-16
- NEVILL, W.E., 1966, The geology of the North Cork (Kenturk) Coalfield., *Geological Magazine*, 103, 423-431
- NEVILL, W.E., 1957, Sand volcanoes, sheet slumps and stratigraphy of part of the Slieveardagh Coalfield, County Tipperary., *Scientific Proceedings of the Royal Dublin Society*, 27, 313-324
- NEVILL, W.E., 1958a, A note on the occurrence of coal measures in eastern Co. Limerick., *Geological Magazine*, 95, p20-24
- NI WEN, BOYCE, A.J., FALLICK, A.E., ASHWORTH, J.R. and IXER, R.A., 1996, The genesis of Cu-bearing quartz veins by metamorphic remobilization from stratiform red bed deposits, S.W. Co. Cork, Ireland., *Mineralogy and Petrology*, 57, p. 73-89
- NI WEN, IXER, R.A., KINNAIRD, J.A., ASHTON, J.R. and NEX, P.A., 1999, Ore petrology and metamorphic mobilization of copper ores in red beds, S.W. Co. Cork, Ireland., *Transactions of the Institution of Mining and Metallurgy, Section B: Applied Earth Science.*, 108
- NORMAN, F.Z.W., 2004, Re-cycling and the aggregate industry., *The Irish Mining and Quarrying Society.*, Extractive Industry Ireland, 2004, 104-105
- NOTHOLT, A.J.G., HIGHLEY, D.E., 1979, Phosphate., *Raw materials research and development dossier 4.*, Commission of the European Communities.,
- OAKLEY, K.P., 1942, *British Phosphates, Part 4 - Occurrences of phosphates in pre-Cretaceous rocks.*, 8,
- O'BRIEN, M.V., 1970, Review of Mining Activities in the Republic of Ireland., 79, 171-173
- O'BRIEN, M.V., 1963, Eire Mining Annual Review for 1962., *Mining Journal*, London, 281
- O'BRIEN, M.V., 1964, Eire Mining Annual Review for 1963., *Mining Journal*, London, 281
- O'BRIEN, M.V., 1965, Eire Mining Annual Review for 1964., *Mining Journal*, London, 282-283
- O'BRIEN, M.V., 1966, Eire Mining Annual Review for 1965., *Mining Journal*, London, 297-298
- O'BRIEN, M.V., 1966, Review of mining activity in the Republic of Ireland.,
- O'BRIEN, M.V., 1967, Eire Mining Annual Review for 1966., *Mining Journal*, London, 309
- O'BRIEN, M.V., 1973, Eire Mining Annual Review for 1972, *Mining Journal*, London, 467
- O'BRIEN, M.V., 1969, Mineral exploration in Ireland - progress, practice and further scope., *Proceedings of the Ninth Commonwealth Mining and Metallurgical Congress 1969.*, Paper 25 (Mining & Petroleum section),
- O'BRIEN, M.V., 1960, Eire Mining Annual Review for 1959., *Mining Journal*, London, 273
- O'BRIEN, M.V., 1970, Mineral exploration in Ireland - progress, practices and further scope., *Mining and Petroleum Geology (Proceedings of the Ninth Commonwealth Mining and Metallurgy Congress, 2).*, Institution of Mining and Metallurgy., 561-576
- O'BRIEN, M.V., 1970, Eire Mining Annual Review for 1969., *Mining Journal*, London, 445
- O'BRIEN, M.V., 1971, Eire Mining Annual Review for 1970, *Mining Journal*, London, 459
- O'BRIEN, M.V., 1972, Eire Mining Annual Review for 1971, *Mining Journal*, London, 461
- O'BRIEN, M.V., 1969, Eire Mining Annual Review for 1968., *Mining Journal*, London, 415
- O'BRIEN, M.V., 1961, Eire Mining Annual Review for 1960., *Mining Journal*, London, 281
- O'BRIEN, M.V., 1969, Mineral exploration in Ireland., *Proceedings of the Ninth Commonwealth Mining and Metallurgical Congress 1969.*, 2,
- O'BRIEN, M.V., 1959, Eire Mining Annual Review for 1958., *Mining Journal*, London, 253
- O'BRIEN, M.V., 1959, The future of non-ferrous mining in Ireland., *The future of non-ferrous mining in Great Britain and Ireland.*, Institution of Mining and Metallurgy, London., 5-26
- O'BRIEN, M.V., 1958, The mineral deposits of the Republic of Ireland., *I.M.N. Symposium No. 1, I.M.M.*,
- O'BRIEN, M.V., 1958, *Economic Geology of Ireland.*, Admt. Sci. Lond., 14, 56, 349-352

- O'BRIEN, M.V., 1959, The future of non-ferrous mining in Ireland., Symposium on the future of non-ferrous mining in Great Britain and Ireland, London 1958., Institution of Mining and Metallurgy., 5-28
- O'BRIEN, M.V., 1958, Eire Mining Annual Review for 1957., Mining Journal, London, 233-235
- O'BRIEN, M.V., 1957, Eire Mining Annual Review for 1956., Mining Journal, London, A231-233
- O'BRIEN, M.V., 1953, Phosphatic horizons on the Upper Carboniferous of Ireland., International Geological Congress of Algeria, Comptes Rendu., 11, 135-143
- O'BRIEN, M.V., ROMER, D., 1971, Tara geologists describe the Navan discovery., World Mining, 24, 38-39
- O'BRIEN, J., 2005, Issues facing the aggregates industry in Ireland and perceptions of its future., The Irish Mining and Quarrying Society., Extractive Industry Ireland, 2005, 66
- O'BRIEN, M.V., ROMER, D.M., 1971, Tara's zinc-lead discovery at Navan, Republic of Ireland (Abstract)., Canadian Mining Journal, 92, April, 81-82
- O'BRIEN, J., 1994, The Irish quarrying industry and the environment - a company prespective, The Extractive Industry and the Environment in Ireland, Britain and the rest of the EC., GARDINER, P.R.R., The Irish Mining and Quarrying Society, p.77-82
- O'BRIEN, M.V., 1962, Eire Mining Annual Review for 1961., Mining Journal, London, 283-285
- O'BRIEN, M.V., 1968, Eire Mining Annual Review for 1967., Mining Journal, London, 401-402
- O'CONNELL, M., 1987, Why explore in Ireland?, Ireland - A Golden Opportunity., Irish Mining and Exploration Group., 1, 10-12
- O'CONNOR, P.J., GALLAGHER, V., 1994, Gold prospectivity in the Caledonides of southeast Ireland: application of the upper-crustal reservoir model., Transactions of the Institution of Mining and Metallurgy, 103, Section B, 175-187
- O'CONNOR, P.J., REIMANN, C., Mulit-element regional geochemical reconnaissance as and aid to target selection in Irish Caledonian terrains., Journal of Geochemical Exploration,
- O'CONNOR, P.J., LONG, C.B., 1985, Radioelement abundance data for some Dalradian rocks from Co. Donegal Ireland., Mineralogical Magazine, 49, p.643-648
- O'CONNOR, P.J., HOEGELSBERGER, H., FEELY, M. & REX, D.C., 1993, Fluid inclusion studies, REE Chemistry and age of hydrothermal fluorite mineralization from western Ireland: a link with continental rifting., Transactions of the Institution of Mining and Metallurgy, 102, Section B, 141-148
- O'CONNOR, P.J., 1988a, Application of exploration data analysis in geochemical mapping: an example from Inishowen, Co. Donegal., Irish Association for Economic Geology, Dublin., 93, Annual Review,
- O'CONNOR, P.J., 1988, Application of remote sensing techniques in the search for granitoid-related mineralization in the Irish Caledonides., Resources: Second European workshop on remote sensing in mineral exploration, Report EUR 11317 EN-FR., WAMBEKE, L. VAN, Commision of the European Communities., 125-146
- O'CONNOR, P.J., BRUCK, P.M., 1976, Strontium isotope ratios for some Caledonian igneous rocks from Central Leinster, Ireland., Geological Survey of Ireland Bulletin, 1, 69-77
- O'CONNOR, P.J., LONG, C.B., EVANS, J.A., 1987, Rb-Sr Whole-rock isochron studies of the Barnsmore and Fanad Pluons, Donegal, Ireland., Geological Journal, 22, 11-23
- O'CONNOR, P.J., PYNE, J.F., 1986, Radioelement and REE content of Namurian phosphorites, Co. Clare, Ireland., Transactions of the Institution of Mining and Metallurgy, 95, B: Applied Earth Science, 211-213
- O'CONNOR, P.J., 1988c, Ireland, International Atomic Energy Agency, 2, p.27-28
- O'CONNOR, P.J., GALLAGHER, V., 2003, Regional geochemical mapping in the Caledonides of southwest Ireland., IGES 2003, Abstracts Volume, Dublin, Ireland: 29th August - 3rd September 2003., IGES-NAMS 2003 - Dublin, Ireland., 34
- O'CONNOR, P.J., GALLAGHER, V. and KENNAN, P.S., 1991b, Genesis of lithium pegmatites from the Leinster Granite margin, S.E. Ireland: geochemical constraints., Geological Journal, 26, p295-305
- O'CONNOR, P.J., REIMANN, C and KURZL, H., 1988, A geochemical survey of Inishowen, Co. Donegal., Geological Survey of Ireland Report Series RS 88/1, Geochemistry, 41pp
- O'CONNOR, P.J., REIMANN, C. and KUERZL, H., 1988, An application of exploratory data analysis (EDA) techniques to stream sediment surveys for gold and associated elements in Co. Donegal, Ireland., Prospecting in areas of glaciated terrain 1988, MacDONALD, D.R. and MILLS, K.A., The Canadian Institute of Mining and Metallurgy., Data Interpretation., 449-498
- O'CONNOR, P.G., POUSTIE, A., 1986, Geological setting of, and alteration association with, the Charlestown mineral deposit., Geology and genesis of mineral deposits in Ireland., ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J.F., Irish Association for Economic Geology., 89-102
- O'CONNOR, P.G., 1986, Copper mineralization in the Charlestown Inlier., A study of the contribution of isotope geology in the development of exploration strategy: Geological Survey of Ireland Report., Geological Survey of Ireland.,
- O'CONNOR, P.J., LONG, C.B., KENNAN, P.S., HALLIDAY, A.N., MAX, M.D., RODDICK, J.C., 1982, Rb-Sr Isochron study of the Thorr and main Donegal Granites, Ireland., Geological Journal, 17, 279-295

- O'CONNOR, P.J., HENNESSY, J., BRUCK, P.M. and WILLIAMS, C.T., 1982, Abundance and distribution of uranium and thorium in the northern units of the Leinster granite, Ireland., *Geological Magazine*, 119, 581-592
- O'CONNOR, P.J., 1985, Radioelement geochemistry of Irish Tertiary granites., High Heat Production (HHP) granites, hydrothermal circulation and ore genesis., *Institution of Mining and Metallurgy*, p.239-249
- O'CONNOR, P.J., LONG, C.B., BASHAM, I.R., SWAINBANK, I.G. and BEDDOE-STEPHENS, B., 1984, Age and geological setting of uranium mineralization associated with the Main Donegal Granite, Ireland., *Transactions of the Institution of Mining and Metallurgy*, 93B, 190-194
- O'CONNOR, P.J., REEVES, T., HENNESSY, J., 1981, Radioelement abundance data for the Carrigmore diorite and certain minor granite intrusives from East Leinster., *Geological Survey of Ireland Bulletin*, 3, 9-16
- O'CONNOR, P.J., 1981b, Radioelement geochemistry of Irish granites., *Mineralogical Magazine*, 44, 485-495
- O'CONNOR, P.J., 1981a, Report on the reconnaissance radiometric survey of the Irish Republic., *Geological Survey of Ireland Report Series R S 81/1 (Geophysics)*, pp26
- O'CONNOR, P.J., REIMANN, C., 1992, Mapping of Li-Ta-U-W mineralization in the Caledonian terrain of southeast Ireland using multielement regional geochemical reconnaissance techniques., *The Irish Minerals Industry 1980-1990.*, BOWDEN, A.A., EARLS, G., O'CONNOR, P.G. & PYNE, J., Irish Association for Economic Geology, Dublin., 395-402
- O'CONNOR, P.J., 1986, Uranium mineralization in the Irish Caledonides., *Geology and genesis of mineral deposits in Ireland.*, ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J.F., Irish Association for Economic Geology, Dublin., p157-175
- O'CONNOR, P.J., GALLAGHER, V. & KENNAN, P.S., 1991a, Genesis of lithium pegmatites, S.E. Ireland., Source, transport and deposition of metals., PAGEL, M. and LEROY, J.L., Balkema, Rotterdam., p779-783
- O'DOWD, L., 1990, Gold mining and the Irish environment., *Earthwatch*, Bantry, 34pp
- O'HARA, H., 1864, The supply of fuel in Ireland: an inquiry into the character and extent of the Irish Coalfields, peat, marshes etc., *Journal of the Royal Dublin Society*, 4, 225-249
- OHLE, 1951, Influence of permeability on ore distribution in limestone and dolomite., *Economic Geology*, 41,
- O'KEEFE, W.G., 1986, Age and postulated source rocks for mineralization in central Ireland as indicated by lead isotopes., *Geology and genesis of mineral deposits in Ireland*, ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., Dublin, Irish Association for Economic Geology., p. 617-624
- OLD, R.A., 1794, The Strabane lead mine, Co. Tyrone., *Irish Naturalists Journal*, 18, 41-43
- OLD, R.A., 1972, The use and resources of moulding sand in Northern Ireland., *Institution of Geological Scientific Report Series 72/8*,
- OLIVER, G.J.H., 1978, Prehnite-pumpellyite facies metamorphism in Co. Cavan, Ireland., *Nature*, 274, p. 242-243
- O'MEARA, M., 1983, Republic of Ireland, *Mining Journal*, Annual review, 489-490
- O'MEARA, M., 1982, Eire Mining Annual Review for 1981., *Mining Journal*, London, Annual review, 519-521
- O'MEARA, M., 1981, Eire Mining Annual Review for 1980., *Mining Journal*, London, Annual review, 536-537
- O'MEARA, M., 1980, Eire Mining Annual Review for 1979., *Mining Journal*, London, Annual review, 561-563
- O'PREY, M., FLIGHT, D.M.A., 2003, A geochemical survey of Western Northern Ireland., NAMS 2003, Abstracts Volume, Dublin, Ireland: 1st September - 3rd September 2003., IGES-NAMS 2003 - Dublin, Ireland., 101-102
- ORAM, R.A.J.T., BEDFORD, D.J., 1973, Raise-boring practice and boring and equipping of an ore-hosting shaft at Tynagh Mine, Ireland., 82A, A15-24
- ORAM, R.A., 2003, Driving the exploration decline at Tynagh Mine., *The Irish Mining and Quarrying Society.*, Extractive Industry Ireland, 2003, 83-85
- O'REILLY, J., 1980, Notes on some assays for gold of rocks in the neighbourhood of Dublin., *Proceedings of the Royal Dublin Society*, 6, 456
- O'REILLY, C., JENKIN, G.R.T., FEELY, M., ALDERTON, D.H.M. & FALLICK, A.E., 1997, A fluid inclusion and stable isotope study of 200 Ma of fluid evolution in the Galway Granite, Connemara, Ireland., *Contributions to Mineralogy & Petrology.*, 129, 120-142
- O'REILLY, C., FEELY, M., HOLDSTOCK, M.P. & O'KEEFE, W.G., 1997, Fluid inclusion studies of the unexposed Kentstown Granite, Co. Meath., *Transactions of the Institution of Mining and Metallurgy*, 106, Section B, 31-37
- O'REILLY, B.M., READMAN, P.W. and MURPHY, T., 1999, Gravity lineaments and carboniferous-hosted base metal deposits of the Irish Midlands., Fractures, fluid flow and mineralization., McCaffrey, K.J.W., LONERGAN, L. and WILKINSON, J.J., *Geological Society*, London., 155, 313-321
- O'REILLY, J.P., 1981, On the occurrence of idocrase in the County of Monaghan., *Scientific Proceedings of the Royal Dublin Society*, 1, 446-450
- O'REILLY, T.A., 1986, A review of vein mineralization in S.W. Cork, Ireland., *Geology and genesis of mineral deposits in Ireland.*, ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., Irish Association for Economic Geology., p. 513-544



- O'REILLY, T., 1999, ARCON - Building an Irish Zinc Mine., North Atlantic Minerals Symposium Extended Abstracts Volume, 19th-22nd September 1999. Dublin, Ireland., STANLEY, G.A., Geological Survey of Ireland., 41-44
- O'SUILLEABHAIN, D., 1996, Hydrogeology of the Avoca Mine Site and surrounding area, Co. Wicklow., GSI Technical Report MS96/3, Geological Survey of Ireland., December 1996,
- O'SULLIVAN, J., 1994, The an Taisce (The National Trust for Ireland) view of the industry and environmental matters, The Extractive Industry and the Environment in Ireland, Britain and the rest of the EC., GARDINER, P.R.R., The Irish Mining and Quarrying Society, p.83-94
- O'SULLIVAN, P., 2004, A preliminary report on Crookhaven Mine, County Cork., Journal of the Mining Heritage Trust of Ireland, 4, December 2004, 11-18
- O'SULLIVAN, M., 1991, Environmental Impact Studies: a comparative analysis of five quarry proposals in Ireland., Irish Association for Economic Geology, Dublin., Annual Review, p.84-89
- O'SULLIVAN, D., 2002, Arklow quarry, past and present., Irish Mining and Quarrying Society., Extractive Industry Ireland, 2002, 75-77
- OSWALD, D.H., 1955, The Carboniferous rocks between the Ox Mountains and Donegal Bay., Quarterly Journal of the Geological Society of London., 111, 167-186
- PARKES, M.A., CARVILLE, G., KELLY, J. and DOWDS, S., 2001, The sandstone mines of Mountcharles, Co. Donegal., Journal of the Mining Heritage Trust of Ireland, 1, November 2001, 3-7
- PARKES, M., 2003, Mining heritage - opportunity or threat?, The Irish Mining and Quarrying Society., Extractive Industry Ireland, 2003, 95-97
- PARNELL, J., 1988, The Mineralogy of the red bed uranium-vanadium mineralization in the Permo-Triassic of Belfast., Irish Journal of Earth Sciences., 9, 2, p119-124
- PARNELL, J., SHUKLA, B. and MEIGHAN, I.G., 1989, The lignite and associated sediments of the Tertiary Lough Neagh Basin., Irish Journal of Earth Sciences., 10, p67-88
- PARNELL, J., EARLS, G., WILKINSON, J.J., HUTTON, D.H.W., BOYCE, A.J., FALLICK, A.E., ELLAM, R.M., GLEESON, S.A., MOLES, N.R., CAREY, P.F. and LEGG, I.C., 2000, Regional fluid flow and gold mineralisation in the Dalradian of the Sperrin Mountains, Northern Ireland., Economic Geology, 95, 1389-1416
- PATTERSON, J.M., 1971, The Keel, Co. Longford, Zinc-Lead-Cadmium deposit., The Genesis of base metal deposits in Ireland, Irish Geological Association Symposium, Galway, p.13-14
- PATTRICK, R., POLYA, D., 1993, The mineralization and geological evolution of the British Isles., Mineralization in the British Isles., PATTRICK, R. and POLYA, D., Chapman & Hall., pp. 1-37
- PATTRICK, R.A.D., RUSSELL, M.J., 1989, Sulphur isotopic investigation of Lower Carboniferous vein deposits of the British Isles., Mineralium Deposita, 24, 148-153
- PATTRICK, R.A.D., RUSSELL, M.J., 1988, Lower Carboniferous and Permo-Triassic vein deposits of the British Isles and Ireland: A sulphur isotopic study., British Geological Survey stable Isotope Report, 160, 23pp
- PEACE, W.M., WALLACE, M.W., HOLDSTOCK, M.P. and ASHTON, J.H., 2003, Ore textures within the U lens of the Navan Zn-Pb deposit, Ireland., Mineralium Deposita, in press,
- PEACE, W.M., WALLACE, M.W., 2000, Timing of mineralisation at the Navan Zn-Pb deposit: a post-Arundian age for Irish mineralization., Geology, 28, p. 711-714
- PEREIRA, J., 1963, Further reflections on ore genesis and exploration., Mining Magazine, 109, 265-280
- PEREIRA, J., 1963, Reflections on ore genesis and exploration., Mining Magazine, 108, 9-21
- PEREIRA, J., 1967, Stratabound lead-zinc deposits in Ireland and Iran., Genesis of stratiform lead-zinc-barite-fluorite deposits., BROWN, J., Economic Geology Publishing Co., Blacksburg, Va., pp. 192-200
- PETRASCHECK, W.E., 1965, Typical features of metallogenic provinces., Economic Geology, 60, 1920-1634
- PHILCOX, M., 1980, Geological framework of the Navan Zinc-Lead orebody., Report to Tara Mines., 80pp (approx)
- PHILCOX, M.E., JONES, G.L., SOMERVILLE, I.D. and STROGEN, P., 1995, The Carboniferous Limestone of the North Dublin coast and Feltrim Hill, Time and Logs., Irish carbonate-hosted Zn-Pb deposits (Guidebook Series), ANDERSON, I.K., ASHTON, J.H., EARLS, G., HITZMAN, M.W. and TEAR, S., Society of Economic Geologists, Littleton., 21, 170-208
- PHILCOX, M.E., 1989, The Mid-Dinantian unconformity at Navan, Ireland., The role of tectonics in Devonian and Carboniferous sedimentation in the British Isles. (Occasional Publication.), ARTHURTON, R.S., GUTTERIDGE, P. and NOLAN, S.C., Yorkshire Geological Society, Brabford., 6, 67-81
- PHILCOX, M.E., JONES, G.L., SOMERVILLE, I.D. and STROGEN, P., 1995, The Carboniferous Limestone of the North Dublin Basin., Irish carbonate hosted Zn-Pb deposits, Society of Economic Geologists, Guidebook Series., 21,
- PHILCOX, M.E., 1984, Lower Carboniferous lithostratigraphy of the Irish Midlands, Irish Association for Economic Geology Special Publication., 89pp

- PHILLIPS, W.E.A., SEVASTOPULO, G.D., 1986, The stratigraphic and structural setting of Irish mineral deposits., *Geology and genesis of mineral deposits in Ireland*, ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., Dublin, Irish Association for Economic Geology., p. 1-30
- PHILLIPS, W.E.A., ROWLAND, A., COLLIER, D.W., CARTER, J. and VAUGHAN, A., 1988, Application of remote sensing with multidata correlation to mineral exploration in Central Ireland., *Resources: Second European workshop on remote sensing in mineral exploration*, Report EUR 11317 EN-FR., WAMBEKE, L. VAN, Commission of the European Communities., 293-328
- PHILLIPS, W.E.A., ROWLANDS, A., COLLIER, D.W., CARTER, J. & VAUGHAN, A., 1988, Structural studies and multidata correlation of mineralization in Central Ireland., *Mineral deposits within the European Community.*, BOISSONNAS, J. and OMENETTO, P., Berlin/Heidelberg. Springer., 353-377
- PICKARD, N.A.H., REES, J.G., STROGEN, P., SOMERVILLE, I.D. and JONES, G. LL., 1994, Controls on the evolution and demise of Lower Carboniferous carbonate platforms, northern margin of the Dublin Basin., *Geological Journal*, 29, 93-117
- PICKARD, M.K., 1965, Tynagh Reaches Production., *Mining Magazine*, 113/5, p.342-353
- PLANT, J.A., 1986, Models for granites and their mineralizing systems in the British and Irish Caledonides., *Geology and genesis of mineral deposits in Ireland.*, ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J.F., Irish Association for Economic Geology., 121-156
- PLATT, J.W., 1975c, Volcanogenic sulphide ore deposits with special reference to Avoca., *Irish Association for Economic Geology Newsletter.*, 5, p.2-3
- PLATT, J.W., 1976, Volcanogenic mineralisation at Avoca, Co. Wicklow and its regional implications (abstract)., *Conference Report of "Volcanic processes in ore genesis"*. *Journal of the Geological Society of London.*, Geological Society of London., 132, 573-575
- PLATT, J.W., 1975b, New light on Avoca ore potential., *Mining Ireland*, 3, 78-81
- PLATT, J.W., 1975a, Environmental control at Avoca Mines Ltd., Co. Wicklow, Ireland., *Minerals and the environment.*, JONES, M.J., Institution of Mining and Metallurgy, London., 731-758
- PLATT, J.W., 1973, Operations at Avoca Mines Ltd., Avoca, Co. Wicklow, Ireland., *Mining Ireland*, 1, 1973, 72-91
- PLATT, J.W., 1971, Genesis of the Avoca ores., *Genesis of base metal sulphides in Ireland Galway, Ireland 1971.*, Irish Geological Association.,
- PLATT, J.W., 1979, The Avoca Mines., *Prospecting in glaciated terrain.*, JONES, M.J., Institution of Mining and Metallurgy.,
- PLATT, J.W., 1977, Volcanogenic mineralization at Avoca, Co. Wicklow, Ireland and its regional implications., *Volcanic processes in ore genesis.*, *Instn. Min. metall. And Geol. Soc. Lond.*, p163-170
- PLATT, J.W., 1978, Discussion: Badham, J.P.N., *Transactions of the Institute of Mining and Metallurgy (Section B: Applied Earth Sciences)*. 87. 1978. B21-6., *Transactions of the Institute of Mining and Metallurgy*, 87, B184-7
- PLATT, J.W., 1973, Avoca., *Mining Ireland*, 72-91
- PLATT, J.W., 1980, Review of Irish Caledonian stratabound sulphides., *Geological Survey of Ireland Special Paper No. 5.*, 25-28
- PLIMER, I.R., 1980, Exhalative Sn and W deposits associated with mafic volcanism as precursors to Sn and W deposits associated with granites., *Mineralium Deposita*, 15, 275-289
- POINTON, C.R., 1980, Some environmental features of volcanogenic sulphide mineralisation at Avoca, Eire and Parys Mountain, Anglessey, Wales., *Norges. Geol. Undersokelse, Nr 360, Bulletin.*, 57, 259-268
- POMEROY, M., BANNARD, J., 1982, How Ireland's coal could go up in smoke., *Technology Ireland*, May, p.43-48
- PORTLOCK, J.E., 1843, Londonderry. Report on the Geology of the County of, and of parts of Tyrone and Fermanagh., *Memoir Geological Survey of Ireland*, pp.784
- POUSTIE, A., KUCHA, H., 1986, The geological setting, style and petrology of zinc-lead mineralization in the Moyvoughly area, Co. Westmeath., *Geology and genesis of mineral deposits in Ireland.*, ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., Irish Association for Economic Geology, Dublin., 305-318
- POUSTIE, A., 1982, The discovery of a new mineral deposit within the Ordovician volcanic series near Charlestown, Co. Mayo., *Mineral exploration in Ireland, Progress and developments 1971-81.*, BROWN, A.G., Irish Association for Economic Geology, Folens, Dublin., 97-107
- PROBERT, K., 1983, Fluid inclusions data from carbonate hosted Irish base metal deposits., *Mineral Deposit Studies Group, Manchester.*, B4-5,
- PROIR, R.W., 1910, Analcite basalt from Rathjordan, Co. Limerick., *Mineralogical Magazine*, 15, p. 315-317
- PYNE, J.F., 1992, Mineral Exploration in the Republic of Ireland., *Irish Association for Economic Geology, Dublin.*, *Annual Review*, p.42-47

- PYNE, J.F., 1991, Gold exploration in Ireland: an update., International Liaison Group on Gold Mineralisation Newsletter, April 5-7., April, p.5-7
- PYNE, J.F., 1989, Recent gold exploration in Ireland., Transactions of the Institution of Mining and Metallurgy, 98, Section B, B55-58
- QUIGG, J.B., 1989, Recent exploration and geology of the Ballymoney lignite deposit., The lignite and associated sediments of the Tertiary Lough Neagh Basin., PARNELL, J., SHUKLA, B. and MEIGHAN, I.G., Irish Journal of Earth Sciences., 10, p67-88
- RADTKE, A.S., RUSSELL, M.J., 1978, Relationship between minor elements in Palaeozoic sedimentary rocks and the distribution and chemical composition of base metal deposits in Ireland (abs)., Economic Geology, 73, 1396
- RECIO, C., CAULFIELD, J.B.D., BOYCE, A.J., FALLICK, A.E. and HITZMAN, M.W., 1988, Stable isotopic (S, C, O) study of the Abbeystown Zn+Pb+Ag mine, Co. Sligo, Ireland., Mineral Deposits Studies Group Annual Meeting, Egham., Abstracts Volume.,
- REDMOND, P., 1995, Structural controls on mineralization and dolomitization of the Lisheen Zn-Pb-Ag deposit, Co. Tipperary, Ireland., Extended Abstracts: International field conference on carbonate hosted lead-zinc deposits., LEACH, D.L. and GOLDBERGER, M.B., St. Louis, Missouri., 251-253
- REED, C., WALLACE, M., 2003, Cementation, hydrothermal alteration and Zn-Pb mineralization of Carbonate Breccias in the Irish Midlands: Textural evidence from the Cooleen Zone, near Silvermines, Co. Tipperary - A Discussion., Economic Geology, 98, 1, pp 191-193
- REED, C.P., WALLACE, M.W., 2001, Diagenetic evidence for an epigenetic origin of the Courtbrown Zn-Pb deposit, Ireland., Mineralium Deposita, 36, 428-441
- REED, M.H., 1997, Hydrothermal alteration and its relationship to ore fluid composition., Geochemistry of hydrothermal ore deposits., BARNES, H.L., Wiley, 3, 303-365
- REEVES, T.J., 1977, Stream sediment base metal geochemistry of one-inch sheet 130., Geological survey of Ireland Report Series, RS 77/1, 1-13
- REEVES, T.J., 1971, Gold in Ireland., Geological Survey of Ireland Bulletin, 1, 73-85
- REGAN, C., WALSH, F., 1977, Dependence and underdevelopment: The case of mineral resources and the Irish Republic., Radical Geography., Maaronfa Press, Chicago., p.77-84
- REILLY, T.A., 1986, A review of vein mineralization in S.W. County Cork, Ireland., Geology and genesis of mineral deposits in Ireland., ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., Irish Association for Economic Geology, Dublin., 513-544
- REILLY, T.A., GRAHAM, J.R., 1972, The historical and geological setting of the Glandore Mines, South-West Co. Cork, (Refers to manganese)., Geological Survey of Ireland Bulletin, 1, 253-265
- REILLY, T.A., 1980, Richard Griffith and the Cappagh Copper Mine Fraua., Richard Griffith 1784-1878. Historical studies in Irish Science and Technology., HERRIES DAVIES, G.L. and MOLAN, R.L., Royal Dublin Society., 1, 197-210
- REYNOLDS, G.A., 1980, Influence of glacial overburden on geoelectrical prospecting in Ireland., Institution of Mining and Metallurgy, 80, B238-258
- REYNOLDS, G.A., 1978, The application of quantitative resistivity prospecting to mineral exploration in Ireland 1978., Abstract in Geophys. Prospect 26, p.686, 26, 686
- REYNOLDS, N., McARDLE, P., PYNE, J.F., FARRELL, L.P.C. and FLEGG, A.M., 1990, Mineral localities in the Dalradian and associated igneous rocks of Connemara, Co. Galway., Geological Survey of Ireland Report Series RS 90/2., Authority of the Minister for Energy., PP 89
- REYNOLDS, G.A., HEARNE, S., BURKE, D.J., 1992, Gold mineralisation in the Silurian and Ordovician of South Mayo., The Irish Mineral Industry 1980 - 1990., BOWDEN, A.A., EARLS, G., O'CONNOR, P.G., AND PYNE, J.F., Irish Association for Economic Geology, Dublin.,
- REYNOLDS, G.A., 1991, Transient EM-a new technique for mineral exploration in Ireland., Irish Association for Economic Geology, Dublin., Annual Review, p.145-149
- REYNOLDS, G.A., 1985, Geophysical prospecting in the Iberian Pyrite belt and its relevance to Ireland., Irish Association for Economic Geology, Dublin., 41, Annual Review,
- RHODEN, H.H., 1959, Mineralogy of the Silvermines district, Tipperary, Eire., Mineralogical Magazine, 32, 128-139
- RHODEN, H.H., 1953, Structure and economic mineralisation of the Silvermines Districts, Co. Tipperary, Eire., Transactions of the Institution of Mining and Metallurgy, 68, B67-94
- RIDER, M.H., 1974, The Namurian of West Clare., Proceedings of the Royal Irish Academy, 9B, 74
- RIEDEL, D., 1980, Ore structures and genesis of the lead-zinc deposit at Tynagh, Ireland., Geologisches Rundschau, 69, 361-383
- RIZZI, G., BRAITHWAITE., 1997, The geometry and petrogenesis of hydrothermal dolomites at Navan, Ireland., Sedimentology, 44, 421-440

- RIZZI, G., BRAITHWAITE, C.J.R., 1997, Sedimentary cycles and selective dolomitization in limestones hosting the giant Navan zinc-lead ore deposit, Ireland., *Exploration and Mineral Geology*, 6, 63-77
- RIZZI, G., BRAITHWAITE, C.J.R., 1996, Cyclic emersion surfaces and channels within Dinantian limestones hosting the giant Navan Zn-Pb deposit., *Recent advances in Lower Carboniferous geology*, Geological Society Special Publication., STROGEN, P., SOMERVILLE, I.D. and JONES, G.L.L., Geological Society., 107, 207-219
- RIZZI, G., BRAITHWAITE, C.J.R. and ASHTON, J.H., 1990, Dolomitization at Navan, Co. Meath, Ireland., *Abstracts Volume, Mineral Deposits Studies Group, Dublin.*, 27 pp
- ROBBIE, J.A., 1955, The Carboniferous rocks of Edendark, Co. Tyrone., London: H.M.S.O. *Bulletin of the Geological Survey of Great Britain*, No. 8, 21-43, *Bulletin of the Geological Survey of Great Britain*, 8, p.21-43
- ROBERTS, N., 2005, The design of drill bits for rock conditions in Irish mines., *The Irish Mining and Quarrying Society., Extractive Industry Ireland*, 2005, 35-37
- ROBINSON, P.C., 1991, Mining and the tourist environment., *Irish Association for Economic Geology, Dublin., Annual Review*, 94
- ROBINSON, P.C., 1991, Tara: the economic and environmental benefits local and national., *Irish Association for Economic Geology, Dublin., Annual Review*, p.90-93
- ROEDDER, E., 1968, Data of Irish sphalerite., U.S. Geol. Survey internal memorandum from E. Roedder to T.B. Nolan.,
- ROEDDER, E., 1976, Fluid inclusion evidence on the genesis of ores in sedimentary and volcanic rocks., *Handbook of stratabound and stratiform ore deposits.*, WOLF, K.H., Elsevier, 2, 67-110
- ROEDDER, E., 1979, Fluid inclusions as samples of ore fluids., *Geochemistry of hydrothermal ore deposits.*, BARNES, H.L., John Wiley and Sons, New york., p. 684-737
- ROGERS, J.G., MEERE, P., TURNER, P. and IXER, R., 2002, Palaeofluid evolution, controls and timing of flow in the Devonian rocks of the S.W. of Ireland., *Irish Association for Economic Geology Weekend Course 2002 (Westport, Co. Mayo, Ireland) Abstracts Volume: Basement Controls on Mineralization in the Irish Orefield.*, Irish Association for Economic Geology., 65-69
- ROMER, D.M., 1986, A note on the Aherlow Cu-Ag deposit, Co. Limerick., *Geology and genesis of mineral deposits in Ireland.*, ANDREW, C.J., CROWE, R.W.A., FINLAY, S. ET AL., *Irish Association for Economic Geology, Dublin.*, pp. 509-12
- ROMER, D.M., FINLAY, A.D.S., 1984, Soil gas investigation at Navan orebody, Ireland., *Prospecting in areas of glaciated terrain 1984.*, Institution of Mining and Metallurgy., 153-158
- ROMER, D.M., 1987, The Westport talc deposit., *GSI Industrial Minerals Newsletter*, 1, February, 2,
- RONALDSON, J.H., 1920, *Monographs on mineral resources with special reference to the British Empire - Coal.*,
- ROTHERY, E., 1985, A review of faulting affecting the Irish Carboniferous rocks., *Irish Association for Economic Geology, Dublin., Annual Review*, 53-54
- RUSSELL, M.J., 1986, Reflections on the genesis of the Irish Carboniferous lead and zinc +/- baryte deposits., *Geology in the real world - the Kingsley Dunham Volume.*, NESBITT, R.W. and NICHOL, I., Institution of Mining and Metallurgy, London., *The Kingsley Dunham Volume*, p375-386
- RUSSELL, M.J., SKAULI, H., 1991, A history of theoretical developments on carbonate-hosted base-metal deposits and a new tri-level enthalpy classification., *Economic Geology, Monograph 8*, p94-114
- RUSSELL, M.J., HALL, A.J. and DULLER, P., 1984, Implications of chemical garden growth to the understanding of certain ore morphologies in the Navan ore-body., *Mineralogical Society Newsletter*, 64, September., p2-3
- RUSSELL, M.J., 1978, Downward-excavating hydrothermal cells and Irish-type ore deposits; importance of an underlying thick Caledonian prism., *Transactions of the Institution of Mining and Metallurgy*, 87, B: Applied Earth Science, B168-171
- RUSSELL, M.J., 1976, Incipient plate separation and possible related mineralisation in lands bordering the North Atlantic., *Geological Association of Canada*, 14, 339-349
- RUSSELL, M.J., 1988, A model for the genesis of sediment-hosted exhalative (SEDEX) ore deposits., *IAGOD Symposium.*, E. Schwizerbartsche Verlags buchhandlung, Stuttgart., p59-66
- RUSSELL, M.J., 1986, Extension and convection: a genetic model for the Irish Carboniferous base metal and barite deposits., *Geology and genesis of mineral deposits in Ireland.*, ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., *Irish Association for Economic Geology, Dublin.*, p. 545-554
- RUSSELL, M.J., 1986, Extension and convection: a genetic model for the Irish Carboniferous base metal and barite deposits., *Geology and genesis of mineral deposits in Ireland.*, ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., *Irish Association for Economic Geology, Dublin.*, PP. 545-554
- RUSSELL, M.J., 1979, Geofracture controls of Mississippian base metal mineralisation in Ireland, Scotland and Wales., *Proceedings of the Second International Conference on Basement Tectonics.*, PODWYSOCKI, M.M. & EARLE, J.L., *Basement Tectonic Committee Inc.*, 445-450
- RUSSELL, M.J., 1996, The generation at hot springs of sedimentary ore deposits, microbialites, and life., *Ore Geology Reviews*, 10, p. 199-214

- RUSSELL, M.J., 1979, North-South geofracture controls of Mississippian base-metal mineralisation in Ireland, Scotland and Wales., Proceedings of the second international conference on Basement Tectonics, International Basement Tectonics Inc., Utah, Podwysoki, M.H. and Earl, J.L., International Basement Tectonics Inc., Utah,
- RUSSELL, M.J., 1976, Lithogeochemical environment of Tynagh base-metal Ireland and its bearing on ore deposition., B85, B292-293
- RUSSELL, Sir A., 1907, Mines and minerals of Silvermines district., Mineralogical Magazine, 14, p.350
- RUSSELL, M.J., 1978, Mineralisation in fractured craton., Crustal Evolution in Northwestern Britain and Adjacent Regions., BOWES, D.R. and LEAKE, B.E., Geological Journal Special Issue, 10, 297-308
- RUSSELL, M.J., 2005, Minerals and microbes: from Irish mines to the origin of life., The Mineral Deposits Studies Group Annual Winter Conference 4th - 6th January 2005, The Ulster Museum, Belfast: Mineral Deposits in the 21st Century., The Mineral Deposits Studies Group.,
- RUSSELL, M.J., BOYCE, A.J., LARTER, R.C.L. & SAMSON, T.M., 1981, The significance of hydrothermal pyrite chimneys in the Silvermines deposits., Mineral exploration in Ireland, Progress and developments 1971-81., BROWN, A.G., Irish Association for Economic Geology, Folens, Dublin., 171-172
- RUSSELL, M.J., 1982, Major sediment-hosted exhalative zinc and lead deposits: Formation from hydrothermal convection cells that deepen during crustal extension., Mineralogical Association of Canada, Short Course Handbook, SANGSTER, D.F., 8, 251-283
- RUSSELL, M.J., 1969, Reply to discussion of Structural controls of base metal mineralisation in Ireland in relation to continental drift., Transactions of the Institution of Mining and Metallurgy, 78, B127-131
- RUSSELL, A., 1917, Report on the Burren Mines., Report for the Department for the development of Mineral Resources, Dublin.,
- RUSSELL, M.J., HASZELDINE, R.S., 1992, Accounting for geofractures., The Irish Minerals Industry 1980-1990., BOWDEN, A.A., EARLS, G., O'CONNOR, P.G. & PYNE, J., Irish Association for Economic Geology, Dublin., 135-142
- RUSSELL, M.J., SOLOMON, M. & WALSH, J.L., 1981b, Mechanisms of sulphide deposition in sediment-hosted exhalative lead-zinc deposits., Journal of Geology and Geophysics, 6, 329-330
- RUSSELL, M.J., SOLOMON, M. & WALSH, J.L., 1981a, The genesis of sediment-hosted exhalative zinc-lead deposits., Bureau of Mineral Resources, Mineralium Deposita, 16, 113-127
- RUSSELL, M.J., SMYTHE, D.K., 1981, Metalliferous resources associated with rifting: the Proto North Atlantic example (360-280 Ma)., Processes of Planetary Rifting., Lunar and Planetary Institute, No. 457 Houston, 457, 184-187
- RUSSELL, M.J., SMYTHE, D.K., 1978, Evidence for an early Permian oceanic rift in the Northern Atlantic., Petrology and geochemistry of continental rifts., NEUMAN & RAMBERG DORDRECHT, Holland, Redial: Dordrecht, Holland, 173-197
- RUSSELL, A., 1907, Notes on the rocks and minerals of the Silvermines district, Co. Tipperary., Mineralogical Magazine, 14, 350-353
- RUSSELL, A., 1927a, On the occurrence of the rare mineral nadorite in Cornwall, and on beraunite in Co. Cork, Ireland., Mineralogical Magazine, 21, 272-275
- RUSSELL, M.J., 1973, Base-metal mineralisation in Ireland and Scotland and the formation of the Rockhall Trough., Implications of continental drift to the Earth Sciences., TONLING, D.H., RUNCORN, S.K., Academic Press, London, 581-597
- RUSSELL, M.J., 1975, Lithogeochemical environment of the Tynagh basement deposit, Ireland and its bearing on ore deposition., Transactions of the Institution of Mining and Metallurgy, 84, B: Applied Earth Science, B128-33
- RUSSELL, M.J., 1974, Manganese halo surrounding the Tynagh ore deposit, Ireland; a preliminary note., Transactions of the Institution of Mining and Metallurgy, 83, B65-B66
- RUSSELL, A., 1927b, Notice of an occurrence of nicolite and ullmanite at the Settlingstones Mine, Fourstones, Northumberland; and of serpierite at Ross Island Mine, Killarney, Co. Kerry, Ireland., Mineralogical Magazine, 21, 383-387
- RUSSELL, M.J., 1972, North-south geofractures in Scotland and Ireland., Scottish Journal of Geology, 8, p.75-84
- RUSSELL, M.J., 1969, Tectonic comparison of North Atlantic and Middle East rifting., Nature, 222, 1056-7
- RUSSELL, M.J., 1968, Structural controls of base metal mineralisation in Ireland in relation to continental drift., Transactions of the Canadian Institute of Mining and Metallurgy, 77, B, 117-128
- RYBACK, G., NAWAZ, R. and FARLEY, E., 1988, Seventh supplementary list of British Isles Minerals (Irish)., Mineralogical Magazine, 52, 267-74
- RYDER, A.G., 1885, Notes on the Goldfields of Ireland, with special reference to the Croghan-kinsella district, Co. Wicklow. Report from the Select Committee on Industries (Ireland).,
- SABINE, P.A., STYLES, M.T., YOUNG, B.R., 1985, The nature and paragenesis of national bredigite and associated minerals from Cornwall and Scawt Hill, Co. Antrim., Mineralogical Magazine, 49(5), 354, 663-670
- SAMSON, I.M., RUSSELL, M.J., 1984, Fluid inclusion and stable isotope studies of the Silvermines base metal-baryte deposits, Ireland., G.A.C./M.A.C. Program with abstracts, 9, 102.,

- SAMSON, I.M., 1980, Fluid inclusion studies on the Silvermines Deposits, Co. Tipperary, Ireland (abstract), Mineral Deposits Studies Group, London.,
- SAMSON, I.M., RUSSELL, M.J., 1987, Genesis of the Silvermines zinc-lead-barite deposit, Ireland: Fluid inclusion and stable isotope evidence., *Economic Geology*, 82, 2, 371-394
- SAMSON, I.M., RUSSELL, M.J., 1983, Fluid inclusion data from Silvermines lead-zinc-barite deposits, Ireland., *Transactions of the Institution of Mining and Metallurgy*, 92, B67-71
- SAMSON, I.M., BANKS, D.A. and BOYCE, A.J., 2001, Constraints on the origin of fluids responsible for Irish Zn-Pb-barite deposits: Evidence from the chemistry of fluid inclusions., *North Atlantic Minerals Symposium Extended Abstracts Volume*, May 27-30, 2001., Geological Survey of Ireland., 141-143
- SANDERS, G., BOSWELL, J.K., 1865, The gold valleys of Co. Wicklow., *Journal of the Royal Geological Society of Ireland*, 97-107
- SANDERSON, D.J., DOLAN, J.M., 1986, Structural and statistical analysis of lineament patterns as a guide to exploration., *First European Workshop on Remote Sensing in Mineral Exploration CEC Report 10511*, 9-32
- SANGSTER, D.F., 1986, Age of mineralization in Mississippi Valley-Type (MVT) deposits: a critical requirement for genetic modelling., *Geology and genesis of mineral deposits in Ireland.*, ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., *Irish Association for Economic Geology, Dublin.*, 625-634
- SANGSTER, D.F., 1976, Carbonate-hosted lead-zinc deposits., *Handbook of stratabound and stratiform ore deposits.*, WOLF, K.H., Elsevier, Amsterdam., 6, p. 447-456
- SANTRY, C., 2003, A Review from the UK "Irish Eyes are Smiling"., *The Irish Mining and Quarrying Society.*, Extractive Industry Ireland, 2003, 29
- SCANNELL, Y., 1994, Mining and environmental legislation., *The extractive industry and the environment in Ireland, Britain and the rest of the EC.*, GARDINER, P.R.R., *The Irish Mining and Quarrying Society*, 1994, *Irish Legislation and Mining*, p.37-50
- SCHAFFALITZKY, C., 1987, Why Gold - What of other Minerals?, *Conference Proceedings, Confederation of Irish Industry (Irish Mining and Exploration Group)*, *Irish Mining and Exploration Group.*, 2, 35-37
- SCHULTZ, R.W., 1973, Mineral Exploration., *Mining Ireland*, 3, 42-61
- SCHULTZ, R.W., 1966, The Northgate base-metal deposit at Tynagh, Co. Galway, Ireland., *Economic Geology*, 61, 1443-1449
- SCHULTZ, R.W., 1962, Geochemical prospecting for copper, lead and zinc in the East Clare area of Ireland (abstract)., *8th Inst. on Lake Superior Geology*, Noughton, Mich., 1962,
- SCHULTZ, R.W., 1971, Mineral exploration practice in Ireland., *Transactions of the Institution of Mining and Metallurgy*, 80, B238-258
- SCHULTZ, R.W., 1966, Lower Carboniferous cherty ironstones at Tynagh, Ireland., *Economic Geology*, 61, 311-342
- SCOTT, B.G., 1976, The occurrence of platinum as a trace element in Irish gold: comments on Hartmann's gold analyses., *Irish Archaeological Research FORUM* 3, 2, 21-24, 3, 2, 21-24
- SCOTT, B.G., 1987, The exploration and evaluation of Industrial minerals., *Irish Association for Economic Geology, Dublin.*, *Annual Review*, 19-28
- SCOTT, B., 1979, Zinc and lead mineralisation along the margins of the Caledonian Orogeny., *Transactions of the Institution of Mining and Metallurgy*, 85, p.p. B200-204
- SEIGEL, H.O., 1965, Three recent Irish discovery case histories using pulse-type induced polarisation., *Transactions of the Canadian Institute of Mining and Metallurgy*, 68, 343-348
- SEVASTOPULO, G.D., 1981, *Economic Geology.*, *A Geology of Ireland.*, HOLLAND, C.H., *Scottish Academic Press, Edinburgh.*, 273-301
- SEVASTOPULO, G.D., REDMOND, P., 1999, Age of mineralisation of carbonate-hosted, base metal deposits at Rathdowney Trend, Ireland., *Fractures, fluid flow and mineralisation. (Special Publication No. 155)*, McCAFFREY, K.J.W., LONERGAN, L. and WILKINSON, J.J., *Geological Society of London.*, p. 303-311
- SEVASTOPULO, G.D., 1979, The stratigraphical setting of base metal deposits in Ireland., *Prospecting in areas of glaciated terrain.*, *Institution of Mining and Metallurgy.*, 8-15
- SEVASTOPULO, G.D., 1972, Upper Devonian and Lower Carboniferous stratigraphical setting of Irish mineralization., *Geological Survey of Ireland Bulletin*, 1, p. 267-280
- SEVASTOPULO, G.D., 1982, The age and depositional setting of Waulsortian limestones in Ireland., *Symposium on the palaeoenvironmental setting and distribution of the Waulsortian facies.*, BOLTON, K., LANE, H.R. and LeMONE, D.V., *The El Paso Geological Society and the University of Texas at El Paso.*, p. 65-79
- SEYMOUR, H.J.A., 1902, A (Preliminary) List of Minerals occurring in Ireland., *Geological Magazine*, 9, 500-501
- SEYMOUR, H.J., 1902, On the occurrence of cassiterite in the Tertiary Granite of the Mourne Mountains, Co. Down., *Scientific Proceedings of the Royal Dublin Society*, 9, 49, 583-4
- SEYMOUR, M.J., 1908, Mineralogy of the Dublin District., *British Association Handbook, Dublin.*, 54-59

- SEYMOUR, H.J., 1921, Irish Mineral Resources and how they may be developed., Transactions of the Institute of Civil Engineers of Ireland,
- SHEARLEY, E., HITZMAN, M.W., WALTON, G. ET AL., 1992, Structural Controls of Mineralization, Lisheen Zn-Pb-Ag deposit, Co. Tipperary, Ireland., Geological Society of America Abstracts with Programs, 24, A354
- SHEARLEY, E., REDMOND, P., GOODMAN, R. and KING, M., 1995, A guide to the Lisheen Zn-Pb deposits., Irish carbonate-hosted Zn-Pb deposits. (Guidebook Series), ANDERSON, I.K., ASHTON, J.H., EARLS, G., HITZMAN, M.W. and TEAR, S., Society of Economic Geologists., 21, p. 123-137
- SHEARLEY, E., REDMOND, P., KING, M. and GOODMAN, R., 1996, Geological controls on mineralization and dolomitization of the Lisheen Zn-Pb-Ag deposit, Co. Tipperary, Ireland., Recent advances in Lower Carboniferous geology. (Special Publication), STROGEN, P., SOMERVILLE, I.D. and JONES, G.L.I., Geological Society of London., 107, 23-33
- SHEILS, J., PAUL, T., 2003, Valuation of quarries and mineral bearing lands - An overview., The Irish Mining and Quarrying Society., Extractive Industry Ireland, 2003, 15-19
- SHEILS, J., PAUL, T., 2001, Evaluation & Valuation of Aggregates., Irish Association For Economic Geology Weekend Course, Faithlegg House, Waterford, 12th-13th May 2001. Estimation and Classification of Mineral Resources and Ore Reserves: The State of the Art., Irish Association for Economic Geology.,
- SHEILS, J., 1998, Mineral resources assessment, planning and development control., Institute of Quarrying Northern Ireland Branch and Irish Mining and Quarrying Society., Extractive Industry Ireland, 1998, 72-73
- SHEILS, J., 1999, Aggregates in Ireland - An overview., North Atlantic Minerals Symposium, Extended Abstracts Volume., p58-59
- SHEPHARD-THORNE, E.R., 1963, The Carboniferous Limestone succession in North-West Co. Limerick, Ireland., Proceedings of the Royal Irish Academy, 62B, 267-294
- SHEPPARD, W.A., 1980, The ores and host rock geology of the Avoca Mines, Co. Wicklow., Norges. Geol. Undersokelse, Nr 360, Bulletin., 57, 269-284
- SHERIDAN, D.J.R., 1972, Upper Old Red Sandstone and Lower Carboniferous of the Slieve Beagh Syncline and its setting in the northwest Carboniferous basin., Geological Survey of Ireland Special Paper., 2, 129pp
- SHERIDAN, D.J.R., 1977, The hydrocarbons and mineralization proved in the Carboniferous strata of deep boreholes in Ireland., Proceedings of the forum on 'Oil and ore in sediments', GARRARD, P., London, Department of Geology, Imperial College., p. 113-146
- SHERIDAN, D.J., 1964, The structure and mineralization of the Mountain Mine Area Allihies, West Co. Cork, Ireland., Scientific Proceedings of the Royal Dublin Society, 2A, 21-27
- SIDES, A.D., 1992, European Exploration and Environmental conservation., Irish Association for Economic Geology, Dublin., Annual Review, 58-68
- SIDES, A.D., JOHNSON, M.S., 1991, Environmental Impact Assessment (EISA): - their implementation and management., Irish Association for Economic Geology, Dublin., Annual Review, 95-101
- SILLITOE, R.H., 1972, Formation of certain massive sulphide deposits at sites of sea floor spreading., Transactions of the Institution of Mining and Metallurgy, 81, B: Applied Earth Science, 141-148
- SIMPSON, P.R., BROWN, G.C., PLANT, J. and OSTLE, D., 1979, Uranium mineralisation and granite magmatism in the British Isles., Philosophical Transactions of the Royal Society of London., 291, A, 385-421
- SIMPSON, C.L., REILLY, J., 1942, Note on the analysis of an Irish Phosphate ore., Scientific Proceedings of the Royal Dublin Society, 22, 48, 59-69
- SLACK, J.F., 1982, Tourmaline in Appalachian-Caledonian massive sulphide deposit and its exploration significance., Transactions of the Institution of Mining and Metallurgy, 91, B: Applied Earth Science, B81-89
- SLOWEY, E.P., HITZMAN, M.W., BEATY, D.W. and THOMPSON, T.B., 1995, The Keel Zn-Pb and Garrycam BaSO<sub>4</sub> deposits, Co. Longford, Ireland., Irish carbonate-hosted Zn-Pb deposits, ANDERSON, K., ASHTON, J., EARLS, G., HITZMAN, M. and TEAR, S., Society of Economic Geologists., 21, 227-241
- SLOWEY, E.P., 1986, The Zn-Pb and barite deposits at Keel, Co. Longford., Geology and genesis of mineral deposits in Ireland., ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., Irish Association for Economic Geology., 319-330
- SMITH, M.H., 2001, The Armagh-Monaghan gold belt, Longford Down Massif, Ireland: A new gold exploration and mining province., 2001 North Atlantic Mineral Symposium, St John, Newfoundland. Extended Abstract Volume., 155-158
- SMITH, C.G., GALLAGHER, M.J., LEGG, I.C., GRENNAN, E. & WARD, N.G., 1992, Prospects for small-scale mineral development in Scotland and Ireland., The Irish Minerals Industry 1980-1990., BOWDEN, A.A., EARLS, G., O'CONNOR, P.G. & PYNE, J., Irish Association for Economic Geology, Dublin., 287-300
- SMITH, R.T., SMITH, C.G., LEGG, I.C., 1996, Mineral Exploration in the Clogher Valley area, Co. Tyrone. Part 1: Follow-up investigations., Geological Survey of Northern Ireland Technical Report GSNI/96/3.,
- SMITH, M.H., FURLONG, D. & SWEENEY, J., 2003, The Longford-Down Massif: A new gold province in the Appalachian-Caledonian Orogeny., North Atlantic Minerals Symposium, Dublin, Ireland, September 2003, Abstracts Volume., 110-113

- SMITH, C.G., SMITH R.T., LEAKE, R.C., STYLES, M.T. & LEGG, I.C., 1996, Mineral exploration in the Hilltown and Slieve Croob areas, County Down., Geological Survey of Northern Ireland Technical Report GSNI/96/2.,
- SMITH, M., 1982, The industrial minerals of Ireland., *Industrial Minerals*, 174, March 1982, 39-55
- SMITHSON, F., 1928, Geological studies in the Dublin district. 1. The heavy minerals of the granite and the contiguous rocks in the Ballycorus district., *Geological Magazine*, 65, 12-25
- SMYTH, D., 2003, Discovery of bedrock orthomagmatic Platinum group mineralization at the tertiary Carlingford Complex: A biochemical prospecting success in Ireland., IGES 2003, Abstracts Volume, Dublin, Ireland: 29th August - 3rd September 2003., IGES-NAMS 2003 - Dublin, Ireland., 34-35
- SMYTH, W.W., 1853, The Mines of Wicklow and Wexford., *Records of the School of Mines and of Science applied to the Arts.*, Longman, Brown, Green and Longmans, London., 1, 3, 400-6
- SMYTH, W.W., 1853, The Mines of Wicklow and Wexford., *Museum of Practical Geology and Geological Survey - Records of School of Mines.*, 1, 3, 349-412
- SMYTH, W.W., 1860, Notes on the Bearhaven or Allihies Mines., Explorations to accompany sheets 197 and 198 and south of part 191. Memoir of the Geological Survey of Ireland., p 30-32
- SNELGROVE, A.K., 1966, Irish "strata-bound" base metal deposits., *Canadian Mining Journal*, 87, pp 47-53 & pp 55-60
- SNODIN, S.R., 1971, The nature and origin of copper-rich sedimentary rocks in southwest Co. Cork, Ireland (abstract)., The genesis of base metal deposits in Ireland. (Proceedings of the Galway symposium.), SKEVINGTON, D., Irish Geological Association of Ireland,
- SOMERVILLE, I.D., JONES, G. LL. and PHILCOX, M.E., 1996, Supra-Waulsortian workshop., Irish Association for Economic Geology, Dublin.,
- SOMERVILLE, I.D., STROGEN, P. 1992, 1992, Ramp sedimentation in the Dinantian limestones of the Shannon Trough, Co. Limerick, Ireland., *Sedimentary Geology*, 79, 59-75
- SOPER, N.J., 1988, Timing and geometry of collision, terrane accretion, and sinistral strike slip events in the British Caledonides., *The Caledonian-Appalachian orogen. (Special Publication)*, HARRIS, A.L. and FETTES, D.J., Geological Society of London., 38, p. 481-492
- SOUKEROFF, W.W., 1976, The contribution of gravity and magnetic data to regional geology., *Irish Association for Economic Geology Newsletter.*, 7, 7 (May 1976), 5-6
- STANLEY, G., GALLAGHER, V. GREHAN, G. and LALLY, P., 2003, Aggregate potential mapping: Modelling protocols in use in Ireland., NAMS 2003, Abstracts Volume, Dublin, Ireland: 1st September - 3rd September 2003., IGES-NAMS 2003 - Dublin, Ireland., 102-104
- STANLEY, G., BLAKEMAN, R., BOYLE, J., LALLY, P. and TALBOT, C., 2002, Mineral Deposits in the Basement in Ireland., Irish Association for Economic Geology Weekend Course 2002 (Westport, Co. Mayo, Ireland) Abstracts Volume: Basement Controls on Mineralization in the Irish Orefield., Irish Association for Economic Geology., 48-54
- STANLEY, G., CARROLL, B., CONNOLLY, J., GALLAGHER, V. and McKEON, C., 2004, A review of Ireland's Potential for Bedrock Gold Mineralization., Irish Association for Economic Geology: Weekend Course 2004, 15th-16th May, Bundoran. 'Sediment-Hosted Gold Deposits', Irish Association for Economic Geology, c/o Geological Survey of Ireland.,
- STANLEY, G.A., 1987d, Mineral Exploration of the Limerick Basin., Geological Survey of Ireland, Report Series, R.S. 90/1, 114pp
- STANLEY, G., 1998, The mineral exploration record databank., Institute of Quarrying Northern Ireland Branch and Irish Mining and Quarrying Society., Extractive Industry Ireland, 1998, 118
- STANLEY, C.R., CARTER, J., CAZALET, P. and CARROLL, B., 2003, Light hydrocarbon gas lithogeochemistry as a potential indicator of mineralization in the Irish Upper Carboniferous., IGES 2003, Abstracts Volume, Dublin, Ireland: 29th August - 3rd September 2003., IGES-NAMS 2003 - Dublin, Ireland., 80
- STANLEY, G.A., 1987c, Exploration Focus - Mallow., Geological Survey of Ireland, Pamphlet Series, 87/3, 4pp, 4pp
- STANLEY, G.A., 1987, Exploration Focus - Courtbrown., Geological Survey of Ireland, Pamphlet Series 87/4,
- STANLEY, G.A., 1987a, Exploration Focus - Moyvore., Geological Survey of Ireland, Pamphlet Series, 87/1, 4pp, 4pp
- STANLEY, G.A., 1987b, Exploration Focus - Duncormick., Geological Survey of Ireland, Pamphlet Series, 87/2, 4pp, 4pp
- STEED, G.M., 1986, The geology and genesis of the Gortdrum Cu-Ag-Hg orebody., Geology and genesis of mineral deposits in Ireland., ANDREW, C.J., CROWE, R.W.A., FINLAY, S. ET AL., Irish Association for Economic Geology, Dublin., pp. 481-500
- STEED, G.M., MORRIS, J.H., 1986, Gold mineralization in Ordovician greywackes at Clontibret, Ireland., Turbidite-hosted gold deposits. Geological Association of Canada Special paper 32., KEPPIE, J.D., BOYLE, R.W. and HAYNES, S.J., Geological Association of Canada, Special Paper 32, 32, p67-86



- STEED, G.M., 1989, Mesothermal gold mineralisation in association with igneous rocks: examples from Ireland, Scotland and Canada., Irish Association for Economic Geology Newsletter., Annual Review, 95
- STEED, G.M., TYLER, P., 1979, Lithogeochemical haloes about Gortdrum copper - mercury ore body, Co. Tipperary, Ireland., Prospecting in areas of glaciated terrain 1979., Institution of Mining and Metallurgy, London., 30-39
- STEED, G.M., 1983a, Copper Mineralisation and Volcanism within Carboniferous Rocks of the Central Plain of Ireland., Irish Association for Economic Geology Newsletter., 26, 5-6
- STEED, G.M., MORRIS, J.H., 1997, Isotopic evidence for the origins of a Caledonian gold-arsenopyrite deposit at Clontibret, Ireland., Transactions of the Institution of Mining and Metallurgy, 106, Section B, B109-118
- STEED, G.M., 1983, Gortdrumite, a new sulphide mineral containing copper and mercury, from Ireland., Mineralogical Magazine, 47, p. 35-36
- STEIGER, R., 1977, Prospecting for lithium and tungsten in Ireland., Prospecting in areas of glaciated terrain 1977., institution of Mining and Metallurgy, PP 14-24
- STEIGER, R., BOWDEN, A., 1981, Tungsten mineralisation in S.E. Leinster, Ireland., Mineral exploration in Ireland, Progress and developments 1971-81., BROWN, A.G., Irish Association for Economic Geology, Folens, Dublin., 108-114
- STEIGER, R., POUSTIA, A., 1979, Deep overburden sampling techniques in Ireland., Prospecting in areas of glaciated terrain (London), I.M.M. London., 22-29
- STEIGER, R., BOWDEN, A., 1986, Tungsten mineralization in S.E. Leinster, Ireland., Geology and genesis of mineral deposits in Ireland., ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., Irish Association for Economic Geology, Dublin., 211-216
- STEIGER, R., VON KNORRING, V., 1974, A lithium pegmatite belt in Ireland., J. Earth Sci., Leeds Geol. Association, 8, 433-443
- STEIGER, R., 1975, Ballyvergin and the East Clare syncline., Irish Association for Economic Geology Newsletter., 2 (March), 4
- STEWART, D., 1800, The report of Donald Stewart, itinerant mineralogist to the Dublin Society., Transactions of the Dublin Society, 1, 2 (1799), 142
- STEWART, D.B., 1978, Petrogenesis of lithium-rich pegmatites., American Mineralogist, 63, p970-980
- STOKES, M., 2003, Construction of Zinc Mine at Lisheen., The Irish Mining and Quarrying Society., Extractive Industry Ireland, 2003, 33-39
- STROGEN, P., JONES, G.LL. & SOMERVILLE, I., 1990, Stratigraphy and sedimentary of Lower Carboniferous (Dinantian) boreholes from West Co. Meath, Ireland., Geological Journal, 25, 103-137
- STROGEN, P., 1995, Lower Carboniferous volcanic rocks of the Limerick syncline., Irish carbonate-hosted Zn-Pb deposits. (Guidebook Series.), ANDERSON, I.K., ASHTON, J.H., EARLS, G., HITZMAN, M.W. and TEAR, S., Society of Economic Geologists, Littleton., 21, 75-79
- STROGEN, P., SOMERVILLE, I.D. and JONES, G.LI., 1991, Field Guide to Feltrim Hill quarries., Lower Carboniferous Waulsortian Mudbanks Field Seminar. July 8-13, 1991, Dublin., HITZMAN, M., Chevron Min. Corp. Irl., 11pp.
- STUART, M., 1977, Review of the Gortdrum operation., Irish Association for Economic Geology Newsletter., 11 (August),
- STUDDERT, L., 1873, Examination of Lough Allen coal from Arigna District, Co. Antrim., Journal of the Royal Geological Society of Ireland, 3, 146-148
- SUBRINE, 1800, Memoir of the mines of Glan, the royalty of Richard Martin., Esq. Trans. R. Ir. Acad., 8, 141-156
- SUTCLIFFE, R., 1895, Notes on the Leinster Coalfields., Transactions of the Manchester Geological Society, 23, p.238-45
- SUTCLIFFE, R., 1895, Notes on the Leinster coalfield., Transactions of the Manchester Geological Society, 23, 238-45
- SVERJENSKY, D.A., 1984, Oil fields brines as ore-forming solutions., Economic Geology, 79, p. 23-37
- SWAIL, E., 1975, The Mogul of Ireland Story., Irish Association for Economic Geology Newsletter., 3 (June 1975), 4-5
- SYMONS, D.T.A., SMETHRUST, M.T. and ASHTON, J.H., 2002, Palaeomagnetism of the Navan Zn-Pb deposit, Ireland., Economic Geology, 97, 997-1012
- SYMONS, D.T.A., 2002, Palaeomagnetic dating of Navan and East Tennessee ores: don't believe the geologists!, IAEG lecture, Irish Geological Survey, Dublin., IAEG lecture, Irish Geological Survey, Dublin.,
- SYNGE, F.M., 1979, Quaternary glaciation in Ireland., Prospecting in areas of glaciated terrain., I.M.M., 1-7
- TALBOT, V., RYAN, P., 1988, Hydromorphic dispersion of Cu and Mo over mineralised granodiorite in a high rainfall peaty area in Ireland: Geochemical interpretation and case study., Journal of Geochemical Exploration, 30, 2, 209-220

- TALBOT, V., MAX, M.D., 1984, Application of various geophysical exploration techniques to Cu and Mo mineralization in the Galway Granite, Ireland., Transactions of the Institution of Mining and Metallurgy, 93, B109-113
- TANNER, P.W.G., SHACKLETON, R.M.S., 1979, Structure and stratigraphy of the Dalradian rocks of the Bennabeola area, Connemara, Eire., The Caledonides of the British Isles - Reviewed. Special Publications of the Geological Society of London., HARRIS, A.L., HOLLAND, C.H. and LEAKE, B.E., Geological Society of London., 8, p.263-267
- TARPLEE, M., 2003, Subglacial Till - The 'Upwardly Mobile' Sediment., IGES 2003, Abstracts Volume, Dublin, Ireland: 29th August - 3rd September 2003., IGES-NAMS 2003 - Dublin, Ireland., 65-66
- TAYLOR, S., 1984, Structural and palaeotopographical controls of lead-zinc mineralization in the Silvermines ore bodies, Republic of Ireland., Economic Geology, 76, p. 529-548
- TAYLOR, S., 1979, The Silvermines deposit., Prospecting in areas of glaciated terrain, Ireland 1979, excursion handbook., BROWN, A.G., Irish Association for Economic Geology, Dublin., 47-65
- TAYLOR, S., ANDREW, C.J., 1978, Fracture and control of ore metal distribution in the Silvermines orebodies, Co. Tipperary, Ireland.,
- TAYLOR, S., ANDREWS, C.J., 1978, Silvermines orebodies, Co. Tipperary, Ireland., Transactions of the Institution of Mining and Metallurgy, 87, B: Applied Earth Science, B111-24
- THODE, H.G., MONSTER, J., 1965, Sulphur isotope geochemistry of petroleum, evaporite and ancient seas., Fluids in subsurface environments., Am. Assoc. Pet. Geol. Mem. 4., 367-377
- THOMPSON, I.S., 1966, The discovery of the Gortdrum deposit, Co. Tipperary, Ireland., Transactions of the Canadian Institute of Mining and Metallurgy, 70, 85-92
- THOMPSON, S.J., SHINE, C.H., COOPER, C., HALLS, C. & ZHAO, R., 1992, Shear-hosted gold mineralization in Co. Mayo, Ireland., The Irish Minerals Industry 1980-1990., BOWDEN, A.A., EARLS, G., O'CONNOR, P.G. and PYNE, J.F., Irish Association for Economic Geology, Dublin., 21-38
- THOMPSON, S.J., SHINE, C., COOPER, C., 1990, Gold mineralisation associated with ultramafic shear zones in Co. Mayo, Ireland., The Irish Minerals Industry - A review of the decade, Abstracts volume and programme, Great Southern Hotel Galway, 21st - 23rd September 1990., Irish Association for Economic Geology,
- THOMPSON, T.B., HITZMAN, M.W. and BEATY, D.W., 1992, Paragenesis and fluid inclusion of the Lisheen Zn-Pb-Ag deposits, Co. Tipperary, Ireland., Geological Society of America Abstracts with Programs, 24, A354
- THORNTON, A., DOYLE, E., O'LEARY, J. and STANLEY, G., 2003, Levelling disparate soil Cu, Pb and Zn data: An example from Co. Meath in the Northeast of the Republic of Ireland., IGES 2003, Abstracts Volume, Dublin, Ireland: 29th August - 3rd September 2003., IGES-NAMS 2003 - Dublin, Ireland., 80-81
- TICHBORNE, C.R.C., 1877, The occurrence of magnetic oxide of iron at Kilbride, Co Wicklow., Journal of the Royal Geological Society of Ireland, 4, 219-222
- TIETZSCH-TYLER, D., 1989, The Lower Palaeozoic geology of S.E. Ireland - a revaluation., Irish Association for Economic Geology, Annual Review 1989, 112-119
- TIJSKENS, E., VIANE, W. AND CLIFFORD, J., 1988, Ore mineralogy of the Tatestown Prospect, Ireland., Base Metal Sulphide Deposits., FRIEDRICK, G.M., Springer. Verlaig Berlin Heidelberg.,
- TILSLEY, J.E., Application of geophysical, geochemical and deep overburden sampling techniques to exploration for fluorspar in glaciated terrain., Prospecting in areas of glaciated terrain 1975., JONES., I.M.M. London., 126-135
- TIMPSON, J.P., FITZGERALD, D.H.B., 1991, Mine tailings: rehabilitation in Ireland: - case studies from base line metal mines., Irish Association for Economic Geology, Dublin., Annual Review, 118-122
- TIMPSON, J.P., 1988, Environmental aspects of mine planning and development., Irish Association for Economic Geology, Dublin., Annual Review, 56-60
- TINSLEY, R.C., 1973, Ireland: On the way to becoming top producer of base metals in North-eastern Europe., Exploration and Mining Journal, November, pp 144-158
- TRUDE, K.J., WILKINSON, J.J., 2001, A mineralogical and fluid inclusion study of the Harberton Bridge Fe-Zn-Pb deposit, Co. Kildare, Ireland., Journal of the Geological Society of London, 158, p. 37-46
- TURNER, J.S., HORNUNG, G. AND REX, D.C., 1972, Tertiary igneous activity at Navan, Co. Meath., Irish Naturalists Journal, 17, 262-264
- TURNER, J.S., 1952, The Lower Carboniferous rocks of Ireland., Geological Journal, 1, 113-147
- TYLECOTE, R.F., 1970, The composition of metal artefacts: A guide to provenance?, Antiquity, 44, 19-25
- TYLER, P., 1980, Le gisement de cuivre de Gortdrum, in Metallogeme d'Europe occidentale., Guide Book for the 26th International Geological Congress, Paris, France., 106-109
- TYLER, P., 1976, The Gortdrum deposit., Irish Association for Economic Geology Newsletter., 6 (February),
- TYLER, P., 1979, The Gortdrum deposit., Prospecting in areas of glaciated terrain, Excursion Handbook, BROWN, A.G., Irish Association for Economic Geology.,

- TYLER, P.A., TENNANT, S., 2001, The Pallas Green discovery: A new mineralized trend in Ireland?, North Atlantic Minerals Symposium Extended Abstracts Volume, May 27-30, 2001., Geological Survey of Ireland., 170-175
- VAN LUNSEN, H.A., REEVES, T.J. and BRUCK, P.M., 1977, Stream sediment base metal geochemistry of one-inch sheet 139., Geological survey of Ireland Report Series, R.S. 77/1 Geochemistry., 29-31
- VAN OYEN, P., VIAENE, W., 1988, Lithogeochemical Investigations in the Navan Area, Ireland., Mineral Deposits within the European Community., BOISSONNAS, J., OMENETTO, P., Springer-Verlag Berlin Heidelberg,
- VARVILL, W.W., 1959, Abbeystown lead-zinc mine., Mine and Quarry Engineering, 25, 50-57
- VERBRUGGEN, K., 2001, A review of Mining and Mineral Exploration in Ireland in 2001., Irish Association for Economic Geology, Annual Review 2001., Irish Association for Economic Geology., 49-53
- VERBRUGGEN, K., COLEMAN, T., 2001, Gold mineralization in Britain and Ireland., North Atlantic Mineral Symposium, St John, Newfoundland, May 2001. Extended Abstracts Volume., 177-185
- WALDRON, O.C., 1987, Why explore in Ireland? A Local Company's Perspective., Ireland - A Golden Opportunity., Irish Mining and Exploration Group., 1, 13-15
- WALKRON, O.C., 1987, Why Explore in Ireland?, Confederation of Irish Industry (Irish Mining and Exploration Group). Conference Proceedings, 13-15
- WALSH, J.J., CARBONI, V. and BONSON, C.G., 2005, Structural evolution of the Zn-Pb mineral deposits of South-Central Ireland., The Mineral Deposits Studies Group Annual Winter Conference 4th - 6th January 2005, The Ulster Museum, Belfast: Mineral Deposits in the 21st Century., The Mineral Deposits Studies Group.,
- WALSH, F., 1978, Base metal mining in the Irish Republic., Journal: Geography, 63, 114-117
- WALSH, F., 1977, The Navan zinc-lead mine., Irish Geography, 10, 95-100
- WALSH, F., 1976, Mineral resources of the Irish Republic., Journal: Geographical Viewpoint, 5, 30-47
- WALSH, J.J., 2002, The Caledonian Orogeny and post Caledonian structure of Ireland., Irish Association for Economic Geology Weekend Course 2002 (Westport, Co. Mayo, Ireland) Abstracts Volume: Basement Controls on Mineralization in the Irish Orefield., Irish Association for Economic Geology., 21-24
- WALSHAW, R.D., MENEUGE, J.F., 1997, Rb-Sr analysis of sphalerite from Irish Carboniferous-hosted base metal deposits., Geofluids 2 - Contributions to the Second International Conference on Fluid Evolution, Migration and Interactions in Sedimentary Basins and Orogenic Belts., HENDRY, J.P., CAREY, P.F., PARNELL, J. RUFFELL, A.H. and WORDEN, R.H., Queens University, Belfast., 63-64
- WARREN, W.P., KEARY, R., 1988, The sand and gravel resources of the Irish Sea Basin., Geographical Society of Ireland Special Publication, 3, 63-67
- WARREN, W.P., HORNE, R.R., A positive approach to Quaternary studies in relation to mineral exploration in Ireland.,
- WATLING, R.J., 1974, Identification and analysis of lattice-held mercury in sphalerite from Keel Prospect, Co. Longford, Ireland., Transactions of the Institution of Mining and Metallurgy, 83, B, B88-94
- WATLING, R.J., DAVIS, G.R. and MEYER, W.T., 1973, Trace identification of mercury compounds as a guide to sulphide mineralisation at Keel, Eire., Geochemical Exploration 1972, JONES, M.J., Institution of Mining and Metallurgy, London., 59-69
- WATLING, R.J., 1976, Trace element distribution in primary sulphides from the Keel Prospect, Co. Longford., Proceedings of the Royal Irish Academy, 76B, 17B, 241-261
- WATLING, R.J., 1972, Identification of trace mercury compounds in rocks as a guide to sulphide mineralisation at Keel, Eire., Transactions of the Institution of Mining and Metallurgy, 81, B, B47-8
- WATSON, K.L., 1980, Slate waste: engineering and environmental aspects., Applied Science Publishers Ltd, London.,
- WAUGH, D., 2001, Life cycle and environmental pressures in mining and quarrying., Institute of Quarrying Northern Ireland Branch and Irish Mining and Quarrying Society., Extractive Industry Ireland, 2, 2001, 54-58
- WEAVER, T., 1835, The gold workings formerly conducted in the County of Wicklow, Ireland., London, Edinburgh, Dublin Philosophical Magazine., 7, 1-6
- WEAVER, T., 1837, On the geological relations of the south of Ireland., Transaction of the Geological Society of London, 5, 1-68
- WEBB, J.S., 1958, Notes on geochemical prospecting for lead-zinc deposits in the British Isles., Proceedings of a symposium on the future of non-ferrous mining in Great Britain and Ireland., Institution of Mining and Metallurgy, London., p. 419-436
- WEBER, W.W., 1964, Modern Canadian exploration techniques reveal major base metal occurrence at Silvermines, Co. Tipperary, Eire., Canadian Mining Journal, 85, 5, 54-57
- WEDOW, H. Jr., 1971, Models of mineralized solution-collapse structures from drilling statistics: An aid to exploration., Economic Geology, 66, p. 770-776

- WHEATLEY, C.J.V., 1978, Ore mineral fabrics in the Avoca polymetallic sulphide deposit, south-east Ireland., Mineralisation in metamorphic terrains., VERWOERD, N.J., Geological Society S.A.(Special publication), 4, 529-544
- WHEATLEY, C.J.V., 1971, Aspects of metallogenesis within the southern Caledonides of Great Britain and Ireland., Transactions of the Institution of Mining and Metallurgy, 80, B211-223
- WHITE, L., 1986, EEC mining community: Ireland: Tara's Zn - Pb mine is dominant producer., Engineering and Mining Journal, 187, 11, 28-31
- WHITEHEAD, D., 1971, Base metal sulphides at Tynagh., Symposium - The genesis of base metal deposits in Ireland., Irish Geological Association, Galway., November,
- WHITEHEAD, D., TWEEDIE, E.B., 1999, Mining and Exploration in the First World - the new view of a Multi-national Company., North Atlantic Minerals Symposium Extended Abstracts Volume, 19th-22nd September 1999. Dublin, Ireland., STANLEY, G.A., Geological Survey of Ireland., 141-144
- WHITEHEAD, D., 1971, Genesis of Base Metal Sulphides in Ireland., Abstracts of lectures presented to the Symposium meeting of the Irish Geological Association, Galway, Ireland, 5 - 7 November, 1971,
- WHITWORTH, M.P., RANKIN, A.H., 1989, Evolution of fluid phases associated with lithium pegmatites from S.E. Ireland., Mineralogical Magazine, 53, p271-284
- WILBUR, D.G., CARTER, J.S., 1986, Cu-Ag mineralization at Tullacondra, Mallow, Co. Cork., Geology and genesis of mineral deposits in Ireland., ANDREW, C.J., CROWE, R.W.A., FINLAY, S. ET AL., Irish Association for Economic Geology, Dublin., pp. 501-8
- WILBUR, D.G., ROYALL, J.J., 1975, Discovery of the Mallow copper-silver deposit, Co. Cork, Ireland., Prospecting in areas of glaciated terrain., I.M.M. London., 60-70
- WILKINSON, J.J., EVERETT, C.E., 1998, Fracture-controlled flow of fluids in basement rocks beneath Zn-Pb mineralized sedimentary basins, Ireland., Abstracts Volume, PACROFI 7, Virginia Polytechnic Institute and State University, Blacksburg, USA., p. 70
- WILKINSON, J.J., EYRE, S.L. & BOYCE, A.J., In press (2003), Geology and genesis of the Lisheen Zn-Pb deposit, Ireland: Ore mineralogy, chemistry and sulphur isotopes., Economic Geology,
- WILKINSON, J.J., EVERETT, C.E., BOYCE, A.J. and FALLICK, A.E., 2000, Recent developments in the understanding of ore genesis in the Irish Zn-Pb-Ba orefield., Europe's Major Base Metal Deposits Conference, Abstract volume., Dublin, Irish Association for Economic Geology., 56 p
- WILKINSON, J.J., BOYCE, A.J., EVERETT, C.E. & LEE, M.J., 2003, Timing and depth of mineralization in the Irish Zn-Pb Orefield., Europe's Major Base Metal Deposits., KELLY, J.G., ANDREW, C.J., ASHTON, J.H., BOLAND, M.B., EARLS, G., FUSCIARDI, L. and STANLEY, G., Irish Association for Economic Geology., 483-498
- WILKINSON, J.J., EYRE, S.L. and BOYCE, A.J., 2005, Ore-forming processes in Irish-Type Carbonate-hosted Zn-Pb Deposits: Evidence from mineralogy, chemistry and isotopic composition of sulphides at the Lisheen mine., Economic Geology, 100, 1, pp 63-86
- WILKINSON, J.J., JOHNSTON, J.D., 1996, Pressure fluctuations, phase separation and gold precipitation during seismic fracture propagation., Geology, 24, 395-8
- WILKINSON, J.J., 1994, Mechanism of Gold transport and deposition in the Croagh Patrick Range, Co. Mayo, Ireland., Final Report, University of London Central Research Fund., 35p
- WILKINSON, J.J., BOYCE, A.J., EARLS, G. and FALLICK, A.E., 1999, Gold remobilization by low temperature brines: Evidence from the Curraghinalt gold deposit, Northern Ireland., Economic Geology, 94, 289-296
- WILKINSON, J.J., EVERETT, C.E., LEE, M.J. and BOYCE, A.J., 2001, Hydrothermal fluid evolution and mineralizing processes in the Irish Zn-Pb Orefield., A hydrothermal odyssey, Extended Conference abstracts, Townsville, May 2001., WILLIAMS, P.J., p.224-225
- WILKINSON, J.J., EARLS, G., 2000, A high-temperature hydrothermal origin for black dolomite matrix breccias in the Irish Zn-Pb Orefield., Mineralogical Magazine, 64, p. 1077-1096
- WILKINSON, J.J., LEE, M.J., 2003, Cementation, hydrothermal alteration and Zn-Pb mineralization of Carbonate Breccias in the Irish Midlands: Textural evidence from the Cooleen Zone, near Silvermines, Co. Tipperary - A Reply., Economic Geology, 98, 1, pp 194-198
- WILKINSON, J.J., 2003, The diagenesis, dolomitisation and mineralisation in the Irish Zn-Pb orefield., Mineralium Deposita, 38, p. 968-983
- WILKINSON, J.J., JOHNSTON, J.D., 1996, Fluid pressure fluctuations, phase separation and gold precipitation during seismic fracture propagation., Geology, 24, p.395-398
- WILLIAMS, N., 1990, Sediment-hosted stratiform lead-zinc deposits., Irish Association for Economic Geology, Dublin., Annual Review, 29,
- WILLIAMS, C.E., McARDLE, P., 1979, Ireland., Mineral deposits of Europe - Volume 1, Northwest Europe., BOWIE, S.H.U., KVALHEIN, A., AND HASLAM, H.W., I.M.M. - Min. Soc., 319-345

- WILLIAMS, F.M., KENNAN, P.S., 1983, Stable isotope studies of sulphide mineralization on the Leinster Granite margin and some observations on its relationship to coticule and tourmaline rocks in the aureole., *Mineralium Deposita*, 15, p399-410
- WILLIAMS, C.E., 1981, Mineral Resources., A profit and loss account of Science in Ireland 1983., CLINCH, A. AND MOLLAN, T., Royal Dublin Society, Dublin., 22-29
- WILLIAMS, B., 1981, Review of current geophysical techniques in base-metal exploration in Ireland., *Mineral exploration in Ireland, Progress and developments 1971-81.*, BROWN, A.G. AND PYNE, J.F., Irish Association for Economic Geology, Folens, Dublins., 135-147
- WILLIAMS, C.E., 1971, Syngenetic ore deposition - a modern parallel., Irish Geological Association,
- WILLIAMS, B., BROWN, C., 1986, A model for the genesis of Zn-Pb deposits in Ireland., *Geology and genesis of mineral deposits in Ireland.*, ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J., Irish Association for Economic Geology, Dublin., 579-590
- WILLIAMS, E.A., BAMFORD, M.L.F., COOPER, M.A. ET AL., 1989, Tectonic controls and sedimentary response in the Devonian-Carboniferous Munster and South Munster basins, Southwest Ireland., *The role of tectonics in Devonian and Carboniferous sedimentation in the British Isles.* (Occasional Publication.), ARTHURTON, R.S., GUTTERIDGE, P. and NOLAN, S., Yorkshire Geological Society., 6, 123-141
- WILLIAMS, F.M., SHEPPARD, W.A. McARDLE, P., 1986, Avoca Mine, Co. Wicklow: a review of geological and isotopic studies., *Geology and genesis of mineral deposits in Ireland.*, ANDREW, C.J., CROWE, R.W.A., FINLAY, S., PENNELL, W.M. and PYNE, J.F., Irish Association for Economic Geology, Dublin., p71-82
- WILSON, ROBBIE., 1966, *The Geology of the country around Ballycastle.*, Special Memoir of the Geological Survey of Northern Ireland.,
- WILSON, H.E., 1971a, Mining developments in Northern Ireland., *Technology Ireland*, October 1971,
- WILSON, H.E., 1971, Review of recent mineral development in Northern Ireland., *Transactions of the Institution of Mining and Metallurgy*, 80, B, B139-141
- WILSON, H.W., 1965, The rise and decline of the iron ore and bauxite industry of Co. Antrim., *Belfast Natural History and Philosophical Society*, 2, 7, 14-23
- WILSON, W.H., 1956, An account of the exploration of the Avoca Mines, Co. Wicklow, Ireland., *Transactions of the Institution of Mining and Metallurgy*, 65, 1955-56, 209, 374, 431 & 457.
- WINCHESTER, J.A., MAX, M.D., 1983, A note on the occurrence of stanniferous granite gneiss in Co. Mayo., *Geological Survey of Ireland Bulletin*, 3, 113-119
- WINDELE, J., 1862, Ancient Irish Gold and its origin..., *Ulster journal of Archaeology*, 9 (1st series), 9, 197-222
- WOODHAM, C.R., BARTON, K.J., 1992, Developments in regional and reconnaissance geophysical techniques in exploration with reference to the Irish Midlands., *The Irish Minerals Industry 1980-1990.*, BOWDEN, A.A., EARLS, G., O'CONNOR, P.G. & PYNE, J., Irish Association for Economic Geology, Dublin., 369-382
- WOODHAM, C., FINLAY, S. & HOLMAN, R., 1989, Gold exploration in the Dalradian of Northern Ireland., *Transactions of the Institution of Mining and Metallurgy*, 98, B: Applied Earth Science, B63-65
- WOODHAM, C.R., BARTON, K., 1990, Regional and reconnaissance geophysical techniques in exploration in the Irish Midlands., *The Irish Minerals Industry - A review of the decade*, Abstracts volume and programme, Great Southern Hotel Galway, 21st - 23rd September 1990., Irish Association for Economic Geology,
- WOODHAM, C.R., 1981, The role of reverse circulation drilling in mineral exploration in Ireland., *Mineral exploration in Ireland, Progress and developments 1971-81.*, BROWN, A.G. AND PYNE, J.F., Irish Association for Economic Geology, Folens, Dublin., 123-124
- WOODMANSSE, W.C., 1964, The mineral industry of Ireland., *Mineral Yearbook 1963*, U.S. Bur. Mines, 4, 573-581
- WRIGHT, G., 1976, Groundwater for industry., *Technology Ireland*, December 1976,
- WRIGHT, W.B., ARBER, E.A.N. AND SMYTH, L.B., 1924, *The geology of the Ballyhaise Coalfield, Co. Antrim.*, Memoir of the Geological Survey of Ireland, 188pp
- WRIGHT, W.B., ARBER, E.A.N. and SYMTH, L.B., 1924, *The geology of the Ballycastle Coalfield, Co. Antrim.*, Special Memoir of the Geological Survey of Ireland., 188pp
- WRIGHT, W.B., 1921, *Memoir on the coalfields of Ireland.*, Commission of enquiry into the resources and industries of Ireland, Dublin,
- WRIGHT, W.B., 1919, An analysis of the Palaeozoic floor of Northeast Ireland, with predictions as to concealed coalfields., *Scientific Proceedings of the Royal Dublin Society*, 15, 629-650
- WRIGHT, W.R., JOHNSON, A.W., SHELTON, K.L. and GREGG, J.M., 2000, Fluid migration and rock interactions during dolomitisation of the Dinantian Irish Midlands and Dublin Basin., *Journal of Geochemical Exploration*, 69-70, 159-164
- WRIGHT, W.R., SOMERVILLE, I.D., GREGG, J.M., JOHNSTON, A.W. and SHELTON, K.L., 2001, From regional to micro-scale: keys to interpreting the genesis of the Irish Lower Carboniferous dolomite and Zn-Pb mineralization., *GSA 2001*,

- WRIGHT, W.R., SOMERVILLE, I.D., GREGG, J.M. and SHELTON, K.L., 1999, Dolomite CL and Oxygen18, Carbon13 data from Irish Midlands and Dublin Basin, Carboniferous., Mineral deposits: Processes to processing. Proc. Joint SGA-IAGOD Meeting, London., STANLEY, C.J. ET. AL., A.A. Balkema, Rotterdam., 2, PP 913-917
- WURZER, F., 1988, Application of Robust statistics of geochemical data., Quantitative analysis of mineral and energy resources., CHUNG, C.F., FABBRI, A.G. and SINDING-LARSEN, R., D. Reidel Publishing Company, Dordrecht., p. 738
- WYLIE, H., 1998, Dust control associated with the mining and quarrying industry., Institute of Quarrying Northern Ireland Branch and Irish Mining and Quarrying Society., Extractive Industry Ireland, 1998, 43-49
- WYLLIE, R.J.M., 1971, Avoca is Ireland's newest copper producer in a historic mining centre., World Mining, November 1971, 50-55
- WYNNE, A.B., 1860, Some remarks upon the mining district of Silvermines, Co. Tipperary, with a map., Journal of the Geological society of Dublin, 8, 244-250
- WYNNE, L.C., 1934, Mineral development in Eire., Mining Magazine, June, 338-344
- WYNNE, L.C., 1943, Avoca Mines., Mining Magazine, 340-343
- WYNNE, A.B., 1860, The mining district of Silvermines, Co. Tipperary., Journal of the Geological society of Dublin, 8, p.244
- YARDLEY, B.W.D., LEAKE, B.E. and FARROW, C.M., 1980, The metamorphism of Fe-rich pelites, Connemara, Ireland., Journal of Petrology., 21, 365-399
- YOUNG, R.D., BURNS, D.J. & McCULLOUGH, H.M., 1989, Gold associated with Ordovician volcanic sequences on Co. Mayo, Ireland., Transactions of the Institution of Mining and Metallurgy, 98, B: Applied Earth Science, B65-67

#### **Papers for which no author information is available:**

- ANONYMOUS, 1988, New seismic system used on Northern Ireland coal deposit., Mining Journal, 311, p.400
- ANONYMOUS, 1989, European Communities/Environmental Impact Assessment Regulations, 1989, Statutory Instrument No. 349, 1989., The Stationery Office Dublin., 15pp
- ANONYMOUS, 1989, Ennex looks for a lucky break., Mining Journal, 312, p.514-515
- ANONYMOUS, 1988, Australian joint venture to develop Northern Ireland lignite., Mining Magazine, 8, p.91
- ANONYMOUS, 1988, Update on Ballymoney project., Mine and Quarry Engineering, 17, 5, p.5
- ANONYMOUS, 1988, Meekathara: Dalradian schists reappraisal [gold prospect near Ballymoney, Northern Ireland]., Mining Journal, 310, p.408
- ANONYMOUS, 1992, Slate. A new venture in an historic area of slate production., GSI Industrial Minerals Newsletter, 17th May, p.3
- ANONYMOUS, 1988, Northern Ireland's Ballymoney lignite project., Mining Magazine, 158/3, p.180-183
- ANONYMOUS, 1988, More Irish gold exploration in Counties Galway and Mayo., Mining Magazine, 88, 159/3, p.161
- ANONYMOUS, 1988, Mayo gold progress., Mining Journal, 311, p.396
- ANONYMOUS, 1988, Kenmare Resources plc. [Coal exploration, Kish Bank basin, Ireland]., Engineering and Mining Journal, 88, 189/9, p.167
- ANONYMOUS, 1988, Prospects for gold in the Emerald Isle., Mining Journal, 311, p.104-5
- ANONYMOUS, 1989, Glencar drilling [Glencar has announced the resumption of diamond drilling on its licence adjoining Tara's Navan mine]., Mining Magazine, 161/5, p.210
- ANONYMOUS, 1989, Glencar's Tara extension [further exploration diamond drilling at Glencar Exploration plc's prospecting licence adjacent to the Tara Navan Mine]., Mining Journal, 313, p.228
- ANONYMOUS, 1989, Irish find for Riofinex [brief details of gold deposit on Riofinex North Ltd's Lack property near Omagh]., Mining Journal, 313, p.418
- ANONYMOUS, 1989, Mayo gold encouragement., Mining Journal, 312, p.468
- ANONYMOUS, 1989, MIM moves in [exploration for base metals in the Midlands region of the Republic of Ireland]., Mining Magazine, 89, p.15
- ANONYMOUS, 1990, Galmoy boost., Mining Journal, 314, p.42
- ANONYMOUS, 1990, Galmoy target raised., Mining Journal, 314, p.190
- ANONYMOUS, 1989, Galmoy is economic., Mining Journal, 312, p.162
- ANONYMOUS, 1990, Gold mining in the Irish Environment. (Special Report), Earthwatch, March, p.35-43
- ANONYMOUS, 1990, Navan discovers gold on Inishturk [Navan Resources plans discovery of gold mineralisation on the island off the County Mayo coast, Eire]., Mining Magazine, 162, p.14
- ANONYMOUS, 1991, Celtic Gold to evaluate calcite deposit., Industrial Minerals, 288, 921
- ANONYMOUS, 1991, New coastal quarry to supply Europe., Mining Journal, 316, p.408-409
- ANONYMOUS, 1987, More Conroy assays., Mining Journal, 308, 482
- ANONYMOUS, 1990, Major andalusite find for Navan., Industrial Minerals, 271, p9

- ANONYMOUS, 1991, Irish zinc, lead mine application., *Mine and Quarry Engineering*, 20, 1-2, p.3
- ANONYMOUS, 1983, Open Pit Barytes Mining at Ballynoe, Ireland., *Mining Magazine*, 1983, p194-200
- ANONYMOUS, 1988, Ballymoney project "unmatched" [energy generation from Ballymoney lignite deposit, Northern Ireland]., *New Quarry Mining (Journal)*, 32, p.67
- ANONYMOUS, 1977, Article on Dunmore barytes mine, near Clonakilty, Co. Cork., *The Irish Times*, Nov. 8th, 1977.,
- ANONYMOUS, 1977, TARA: Largest European lead and zinc mine has begun production., *World Mining*, Aug. 1977, 42-44
- ANONYMOUS, 1977, Tara's Navan lead-zinc mine., *Mineralogical Magazine*, 137, Oct., 300-318
- ANONYMOUS, 1977, Ireland - Seawater magnesian plant No. 2., *Industrial Minerals*, 15, June 15,
- ANONYMOUS, 1976, Eire - Another barytes source?, *Industrial Minerals*, 10, Aug. 10,
- ANONYMOUS, 1975, Ireland - Platin cement expansion., *Industrial Minerals*, 11, July, 11,
- ANONYMOUS, 1969, Avoca pyrites purchased by local user., *Industrial Minerals*, 32, Nov. 32,
- ANONYMOUS, 1968, Eire - Magcobars flexible barite mine., *Industrial Minerals*, 25, Dec. 25,
- ANONYMOUS, 1979, Irish Republic - Premier Periclase's seawater magnesia plant., *Industrial Minerals*, 13,
- ANONYMOUS, 1989, Update on Galmoy Zinc Project., *Mining Magazine*, April 1989, pp2
- ANONYMOUS, 1980, Irish Republic - Diamonds are for Eire., *Industrial Minerals*, 155, 15-17
- ANONYMOUS, 1864, Accounts of mining in West County Cork., *Mining Journal*, 34, 559
- ANONYMOUS, 1975, Tara - Ireland's major lead/zinc prospect still involved in lease talks., 133, 14-19.
- ANONYMOUS, 1988, Prospects for gold in the Emerald Isle., August 5, 104-5
- ANONYMOUS, 2001, Use of recycled aggregates on the increase., *Institute of Quarrying Northern Ireland Branch and Irish Mining and Quarrying Society.*, *Extractive Industry Ireland*, 2, 2001, 66
- ANONYMOUS, 2001, Quarrying with an eye on the environment., *Institute of Quarrying Northern Ireland Branch and Irish Mining and Quarrying Society.*, *Extractive Industry Ireland*, 2, 2001, 65
- ANONYMOUS, 2003, Environmental safeguards, the Irish way., *The Irish Mining and Quarrying Society.*, *Extractive Industry Ireland*, 2003, 111-113
- ANONYMOUS, 2004, Achieving target output at Lisheen, *The Irish Mining and Quarrying Society.*, *Extractive Industry Ireland*, 2004, 65-71
- ANONYMOUS, 1865, The Mines of Wicklow (Handwritten transcript in the GSI archives).,
- ANONYMOUS, 1935, Golden Ireland., Dec. 18, 960-961
- ANONYMOUS, 1860, Prospectus for the great Cappagh Copper Mining Company., *Mining Journal*, 30, 358
- ANONYMOUS, 1987, Gold and Copper at Galmoy., *Mining Journal*, 308, 310
- ANONYMOUS, 1988, Ireland's enhanced potential [gold exploration in Ordovician volcanism, County Mayo]., *Mining Journal*, 88, 6/1, p.58
- ANONYMOUS, 1988, Exploration: Riofinex in Ireland., *Mining Journal*, 310, p.5
- ANONYMOUS, 1988, Eire: increased gypsum reserves from North West., *Industrial Minerals*, 246, p.8-9
- ANONYMOUS, 1988, Early gold production in Northern Ireland and Scotland for Ennex?, *Mine and Quarry Engineering*, 17, 5, p.4-5
- ANONYMOUS, 1988, Mayo encouragement for Andaman/Glencar. [ore-grade gold values at Doo Lough]., *Mining Journal*, 310, p.68
- ANONYMOUS, 1988, Carlingford pause for Peck [preliminary exploration evaluated, Co. Louth]., *Mining Journal*, 310, p.68
- ANONYMOUS, 1987, Perlite evaluation in Northern Ireland., *Mining Magazine*, 156, 1, p.363
- ANONYMOUS, 1991, Lisheen drilling results., *Mining Magazine*, 4, p.254
- ANONYMOUS, 1987, Lignite: a new fuel to make Ireland's fires., *New scientist*, 115, 28
- ANONYMOUS, 1978, Eire - Aughinish alumina confirmed at last., *Industrial Minerals*, 11,
- ANONYMOUS, 1987, Galmoy: a mine in prospect., *Mining Journal*, 309, 23
- ANONYMOUS, 1988, Ireland [drilling at Galmoy base metal project]., *International Mining*, 5/4, 101
- ANONYMOUS, 1987, Further news on Northern Ireland's lignite., *Mining Magazine*, 157, 1, 9
- ANONYMOUS, 1987, Ennex to seek further finding., *Mining Journal*, 308, 263
- ANONYMOUS, 1987, Ennex's vein swarm., *Mining Journal*, 308, 409
- ANONYMOUS, 1987, ... and perlites exploration planned in Northern Ireland., *Industrial Minerals*, 236, 16
- ANONYMOUS, 1984, Was Ireland a copper exporter in the Bronze Age?, *Institute for Archaeo-Metallurgical Studies, Newsletter.*, 7, 7-8
- ANONYMOUS, 1987, A challenge for Ennex., *Mining Journal*, 308, 426
- ANONYMOUS, 1986, Meekatharra to drill Irish Lignite prospect., *Mining Journal*, 308, 94
- ANONYMOUS, 1986, Further moves in evaluating Northern Ireland's lignite., *Mining Magazine*, 5, 377-378
- ANONYMOUS, 1982, Eire -Hepworth pulls out of Premier., *Industrial Minerals*, 181, 11,
- ANONYMOUS, 1987, Juniors lead Irish Exploration Revival., *Mining Journal*, 309, 326
- ANONYMOUS, 1973, Tynagh., *Mining Ireland*, 108-109

- ANONYMOUS, 1973, Gortdrum., Mining Ireland, 94-96
- ANONYMOUS, 1973, Mogul - Silvermines., Mining Ireland, 105-107
- ANONYMOUS, 1973, Magcobar., Mining Ireland, 102-103
- ANONYMOUS, 1978, Drill section correlation.,
- ANONYMOUS, 1973, Avoca - a rejuvenated mine based on low-grade ore., Mining Journal, 154-158
- ANONYMOUS, 1990, Underground barite mining at Ballynoe., Mining Magazine, 1, p.6



## Theses:

- AKHURST, M.C., c. 1985, Diagenesis of Irish Mississippian carbonates associated with base metal deposits., Ph.D., Newcastle upon Tyne Polytechnic
- ALKINDI, G.A.S.A., 1979, Trace-element aureoles around some base-metal mineralisation in Ireland., M.Sc., University of Strathclyde
- AL-RUFAIE, A.I., 1982, The Lead-Zinc mineralization in limestones at Moate, Central Ireland., M.Sc., Cardiff University.
- ANDERSON, I.K., c. 1985, Depositional processes in the Navan orebody, Ireland., Ph.D., University of Strathclyde
- ANDERSON, I.K., 1990, Ore depositional processes in the formation of the Navan zinc-lead deposit, Co. Meath, Ireland., ,
- ASHTON, J.H., 1975, A geological study of the B Zone base metal deposit at the Mogul of Ireland mine, Silvermines, Eire., B.Sc., University of London.
- ATKINSON, W.J., 1967, Regional geochemical studies in Co. Limerick, Ireland with particular reference to selenium and molybdenum., Ph.D., Imperial College, London.
- BARBEC, D.J., 1964, Geochemical prospecting studies in Bunmahon district, Co. Waterford, Ireland and Gornja Lipa, East Serbia, Yugoslavia., D.I.C. Thesis, Imperial College, London.
- BARRETT, J.R., 1975, Genesis of the Ballynoe Barite deposit Ireland and other British stratabound barite deposits., D.I.C., Imperial College, University of London.
- BASKERVILLE, S.L., c.1985, The relationship of carbonate microfacies to lead-zinc metallogenesis in the area of the Keel Inlier, West Central Ireland., Ph.D., Polytechnic of Wales
- BEALE, P.M.E., 1976, A litho-geochemical study of Ballinalack, Co. Westmeath, Ireland., M.Sc., University of Leicester.
- BLAIN, M.R., 1972, The Ballinalack zinc-lead deposit, Co. Westmeath, Ireland., B.Sc., University of London.
- BLAIR, M.R., 1972, The Ballinalack zinc-lead deposit, Co. Westmeath, Ireland., (Unpublished) B.Sc. Dissertation, University of London
- BLAKEMAN, R.J., 2002, The composition and routes of the fluids generating the Navan giant base-metal orebody., Ph.D., University of Glasgow.
- BOAST, A.M., 1978, A textural and isotopic study of Irish base metal mineralisation of Lower Carboniferous age, with specific reference to the Tynagh deposit., Ph.D., Imperial College of Science and Technology, University of London.
- BOYCE, A.J., 1990, Sedimentation, exhalation and sulphur isotope geochemistry of the Silvermines Zn + Pb + Ba deposits, Co. Tipperary, Ireland., Ph.D., Glasgow, Scotland, University of Strathclyde.
- BRADFER, N., 1984, Geology of the Pb-Zn deposit in Waulsortian (Carboniferous) limestones at Ballinalack, Co. Westmeath., M.Sc., University of Dublin.
- BROWN, A.G., 1967, Base metal mineralisation at Ballyvergin and Maghera, Co. Clare, Eire., M.Sc., University of Leicester.
- BUTT, C.R.N., 1971, The influence of environment on regional geochemical patterns in Northern Ireland., Ph.D., Imperial College, London.
- CARR, D.R., 1985, The tectonic fabric and structural setting of gold mineralization in the Orthotectonic Caledonides of NW Ireland: A compilation based on satellite interpretation., M.Sc., Imperial College, London.
- CARTER, J.S., 1981, The connection between gaseous hydrocarbons and lead-zinc mineralization., Ph.D., University of London.
- CAUFIELD, J.B.D., 1986, A model for the genesis of sediment - hosted Zn-Pb-Ba deposits in central Ireland based on lead and sulphur isotopic investigations of Keel, Ballinalack, Moyvoughlt and Tatestown., Ph.D., Yale University, New Haven, Connecticut
- CHRISTIE, M., 1986, Gold distribution in the Avoca mineralised belt, Co. Wicklow, Eire., M.Sc., Camborne School of Mines.
- CRUISE, M.D., 2000, Iron oxide and associated base metal mineralization in Central Midlands Basin, Ireland., Ph.D., Dublin, Trinity College.
- DALTRY, V.D.C., 1985, A structural, geochemical and mineralogical appraisal of the stratabound ore deposits in Western County Cork, Ireland., Ph.D., University College Cardiff, Wales.
- DeBRIT, T., c. 1985, Structure, remote sensing and mineralisation in the north midlands of Ireland., M.Sc., Trinity College Dublin
- DeBRITT, T., 1987, Tectonic veins, structural history, remote sensing and mineralisation in the North Midlands., Ph.D. Thesis, Trinity College, Dublin
- DERHAM, J., c. 1985, Structure and mineralisation of the Galway Granite., Ph.D., University College Galway
- DIXON, P.R., 1990, The role of basement circulated fluids in the origin of sediment-hosted Zn-Pb-Ba mineralization in Ireland., Ph.D., New Haven, Conn., Yale University.

- DONOVAN, P.R., 1965, Geochemical dispersion in relation to base metal deposits in glacial terrain in west-central Eire., Ph.D., Imperial College London.
- DOYLE, E.M., 1985, The Coticule Rocks of the Lower Palaeozoic Maulin Formation in Southeast Ireland., Ph.D. Thesis, National University of Ireland.
- DUANE, M.J., 1981, Uranium genesis, geochemistry and mineralogy in Gortdrum Mine, Tipperary, Co. Tipperary, Ireland., Ph.D., Trinity College Dublin.
- EMO, G.T., 1978, The Lower Palaeozoic and Old Red Sandstone of Slieve Aughty, Counties Clare and Galway., Ph.D. Thesis, University College Dublin
- EVANS, D.S., 1971, Secondary dispersion of mercury and associated elements at Keel, Eire., Ph.D., Imperial College London.
- EVERETT, C.E., 1999, Tracing ancient fluid flow pathways: A study of the Lower Carboniferous base metal ore field in Ireland., Ph.D., New Haven, CT, Yale University.
- EYRE, S.L., 1998, Geochemistry of dolomitization and Zn-Pb mineralization in the Rathdowney trend, Ireland., Ph.D., University of London.
- FERNANDEZ, L.L., 1957, The geology and mineralization of Abbeytown Mine, Co. Sligo, Eire., B.Sc., Royal Schools of Mines, London.
- FILLION, M., 1973, Economic geology and geostatistics of base metal mineralisation at Silvermines, Ireland., Ph.D., Imperial College, London.
- FISHER, P.C., 1973, The mineralogy of the Cronebane orebody Avoca, County Wicklow Ireland., B.Sc., University College Cardiff.
- FISK, S., 1986, An oxygen isotope study of siliceous rocks associated with stratabound mineralization in Scotland and Ireland., Ph.D., University of Strathclyde.
- FITZGERALD, L.G., 1994, Thermal maturation history of the Lower Carboniferous sequence in the vicinity of the Navan Zn/Pb orebody and the Athboy area, Co. Meath, Ireland., Ph.D., Trinity College Dublin.
- FLETCHER, C.I., 1969, The Sulphide Mineralisation in the Allihies Region, Co. Cork., Ph.D., Leicester University.
- FORD, C.V., 1996, The integration of petrologic and isotopic data from the Boulder Conglomerate to determine the age of the Navan orebody, Ireland., Ph.D., University of Glasgow.
- GALLAGHER, V., 1987, Tourmaline bearing rocks and granite-related metallogenesis in SE Ireland., Ph.D., University College Dublin.
- GIBSON, J.C., 1980, Primary dispersion patterns for selected elements in the sulphide ores, host rocks and iron formation at Tynagh, Co. Galway, Ireland., M.Sc., University College of Cardiff
- GIBSON, C., 1979, Primary dispersion patterns for selected elements in the sulphide ores, host rocks and iron formation at Tynagh, Co. Galway, Ireland., Ph.D., Cardiff University.
- GRAHAM, R.A.F., 1970, The Mogul base metal deposits, Co. Tipperary., Ph.D., University of Western Ontario.
- GRAY, G.J., 1984 (in preparation), Litho-geochemical aureoles to mineralisation., Ph.D. Dissertation, University of Strathclyde.
- HALSALL, C.E., 1986, A study of lithium pegmatites associated with Leinster Granite, SE Ireland., B.Sc., Royal School of Mines.
- HARNEY, S.G., 1992, Dalradian hosted mineralization and granite associated skarns in east Connemara, Ireland., M.Sc., University College Galway.
- HAUGHEY, N.A., 1987, Palynology and thermal maturation studies of Upper Carboniferous rocks in Leinster and in the offshore Kish Bank Basin., Ph.D. Thesis, Trinity College, Dublin.
- HAUGHEY, N., 1987, Vitrinite reflectance data from the Upper Palaeozoic of Ireland with particular reference to the Silesian Coalfields., Ph.D., University of Dublin
- HAZLETT, T.J., 1997, A hydrologic analysis of the Irish carbonate-hosted lead-zinc ore deposits., Ph.D., Baltimore, John Hopkins University.
- HOLDSTOCK, M.P., 1983, The Lower Carboniferous geology and base metal mineralization of northeast Co. Kildare., Ph.D., University College Cork
- HORSBURGH, J., 1968, A gravity survey of the Keel prospect, Co. Longford., M.Sc., Imperial College, London.
- IRWIN, D.G., 1983, The potential use of mercury vapour in geochemical exploration in the Clontibret area, Co. Monaghan, Ireland., M.Sc., University of Leicester.
- JACKSON, J.S., 1955, The Carboniferous Succession of the Kingscourt Outlier with Notes on the Permo-Trias and A Contribution to the Palaeontology of the Cuilcagh Mountains., Ph.D., Trinity College Dublin.
- JAKUBIAK, Z., 1984, Gold potential of the Caledonides of the British Isles north of the Iapetus Suture with special reference to the Owenkillew River Area in the Sperrin Mountains., M.Sc., Imperial College, London
- KEELE, R.A., 1969, The geology and geochemistry of Carbery Mining district, Co. Cork., M.Sc., University of Leicester.
- KELLY, D.F.P., 1986, The economic potential of the Ballymacadem and Loughloher ball clay deposits, Co. Tipperary, Ireland., M.Sc., University of Hull.

- KING, D.E., 1984, A diagenetic history of the Waulsortian limestones, eastern Midlands and Dublin Basin, Republic of Ireland., MS, State University of New York, Stony Brook.
- LAMPARD, W.J., 1961, Mineralisation at West Avoca, Co. Wicklow, Ireland., Ph.D., Imperial College, London.
- LARSON, J.D., 1970, Mineralogical and geochemical studies in areas of blanket peat in Western Ireland., Ph.D., Imperial College, London.
- LAWLOR, J., 1970, Genesis of massive sulphides in carbonate sediments, Silvermines, Ireland., Ph.D., University of Boston.
- LEE, M.J., 2002, Origin and Zn-Pb mineralization of dolomite breccias in the Irish Midlands., Ph.D., University of London.
- LETT, R.E.W., 1969, Detailed geochemical exploration in Southwest Ireland., M.Sc., University of Leicester.
- LEWIS, H., 1996, Characterisation of fluid-flow systems for Irish lead-zinc deposits., Ph.D., University of Glasgow.
- LUND, A., 1943, Industrial utilisation of Clare phosphates., M.Sc., University College Dublin.
- MALLON, A.J., 1997, Petrological and mineralogical characteristics of the Old Red Sandstone facies rocks beneath base metal deposits as a guide to the setting of mineralisation in the Irish Midlands., Ph.D., University College Cork, Ireland.
- MATTHEWS, P.F.P., 1964, The copper mineralisation near Allihies, Co. Cork., M.Sc., Trinity College, Dublin.
- MAURICE, T.T., 1973, Geochemical interpretation of base metal enrichment in soils overlying Lower Carboniferous rock near Daingean, Co. Offaly, Eire., Ph.D., Imperial College, London.
- McARDLE, P., 1984, The geological setting of mineralization along the southeast margin of the Tullow Lowlands Unit of the Leinster Granite., Ph.D., University College Dublin.
- McARDLE, P., 1984, Metallogenic studies of lithium and tungsten mineralisation along eastern flank of the Leinster Granite., Ph.D., National University of Ireland
- McKENNA, J., 1984, A shallow seismic investigation of the Kish Bank Basin Ireland., M.Sc., University of College Dublin
- McKILLEN, T.N., 1970, A geochemical study of drill core from the Moate Area, Co. Westmeath, Ireland., M.Sc., University of Leicester.
- MILLS, C., , Isotopic determination of the same regions of Irish and Scottish stratabound deposits., Ph.D., University of Strathclyde
- MOON, C.J., 1983, Factors controlling the surficial dispersion of As, Sb, Bi, Se from mineral deposits in the British Isles., Ph.D., University of London.
- MORRISSEY, C.J., 1965, The Tynagh lead-zinc deposit, Co. Galway., B.Sc., London of University.
- MORRISSEY, C.J., 1970, The mineralogy, structure and origin of the lead-zinc copper residual ore-body at Tynagh, Co. Galway, Ireland., Ph.D., Imperial College, London.
- O'CONNOR, P.J., 1985, Geochemical and Isotopic Studies of the late Caledonian Granitoids in Ireland., Ph.D., University of Utrecht
- O'CONNOR, P.G., 1987, Volcanology, geochemistry and mineralization in the Charlestown Ordovician Inlier, Co. Mayo., Ph.D., University College Dublin
- O'KEEFFE, W.G., 1987, A regional lead isotope investigation of mineralization in Ireland., Ph.D., University College Dublin, Ireland.
- O'KEEFFE, W., C.1985, Pb isotope studies of vein mineralisation in the Longford-Down massif., M.Sc., University College, Dublin.
- ORESKES, N., 1981, A textural and mineralogical study of mineralised breccias Allenwood, Prospect Co. Kildare, Eire., B.Sc., University of London.
- PARSONS, A., 1987, To determine the possible origins for a mineralized boulder from the Carlingford area., B.Sc., University of London.
- PATTERSON, J.M., 1970, Geology and mineralisation of the Keel area, Co. Longford, Republic of Ireland., Ph.D., Imperial College, London.
- PEACE, W.M., 1999, Carbonate-hosted Zn-Pb mineralization within the Upper Pale Beds at Navan, Ireland., Ph.D., University of Melbourne.
- PITFIELD, P.E.J., 1973, Base metal distribution in the pyrite zone at Avoca Copper Mines, Co. Wicklow, Eire and its genetic implications., M.Sc., University of Leeds.
- PITRAGOOL, S., 1971, On The Origin of Mineralization at Abbeytown Mine, Co. Sligo, Ireland., M.Sc., STR
- POCKLEY, R.P.C., 1961, Lead isotope and age studies of uranium and lead minerals from the British Isles and France., D. Phil Thesis., University of Aston.
- POINTON, C.R., 1979, Palaeozoic volcanogenic mineral deposits at Parys Mountain, Avoca and S.E. Canada., Ph.D., University of Aston.
- REDMOND, P.B., 1997, Structural controlled mineralization and hydrothermal dolomitization at the Lisheen Zn-Pb-Ag deposit, Co Tipperary, Ireland., M.Sc., University of Dublin.

- REDMOND, P.B., 1991, The production of a complete NW strike section across the Navan orebody with a study of the stratigraphy, mineralization and diagenetic history across the section, accompanied by a study of mineralization in underground exposure., B.Sc., Trinity College Dublin.
- REYNOLDS, G.A., 1974, A geophysical study of an unusual silica deposit at Dunshaughlin, Co. Meath., M.Sc., Trinity College Dublin
- REYNOLDS, N.A., 1987, Mineralization in the Dalradian Supergroup and Caledonian igneous rocks of Connemara, Co. Galway, Ireland., Ph.D., National University of Ireland.
- RHODEN, H., 1950, The geology and mineralisation of Silvermines area, North Tipperary., Ph.D., University of London.
- RIZZI, G., 1992, The sedimentary and petrography of Lower Carboniferous limestones and dolomites; host rocks to the Navan Zinc-lead deposit, Ireland., Ph.D., University of Glasgow.
- ROWE, J., 1970, The Eastern Extension Orebody, Tynagh mine, Co. Galway, Ireland., B.Sc., London of University.
- RUSSELL, M.J., 1973, The geological environment of post-Caledonian base-metal mineralisation in Ireland., Ph.D., University of Durham.
- SAMSON, I.M., 1983, Fluid inclusion and stable isotopes studies of the Silvermines orebodies, Ireland, and comparisons with Scottish vein deposits., Ph.D., University of Strathclyde
- SCHULTZ, R.W., 1968, The geology of the primary sulphide-barite deposits at Tynagh, Ireland., Ph.D., Trinity College, Dublin.
- SCOON, R.N., 1978, Lithium pegmatites in the Leinster Granite, SE Ireland., M.Sc., Cardiff University.
- SHARPE, E.W., 1979, Lithostratigraphic controls of base-metal mineralisation in the Lower Carboniferous of Ireland., DIC, Imperial College, London.
- SHEILDS, D.A., 1984, Tynagh Mines: Short term mining and local interest groups in the West of Ireland., M.A. Thesis, University College, Galway.
- SHEPPARD, W.A., 1981, The host rock geology and geochemistry of the Avoca Mines, Co. Wicklow, Ireland., Ph.D., Trinity College, Dublin.
- SIDES, E., 1977, The significance of the Irish Old Red Sandstone to Mineral Exploration., M.Sc., Imperial College, London.
- SNODIN, S.R., 1971, Copper beds in southern Ireland., Ph.D., Leicester University.
- SNODIN, S.R., 1972, Copper and other mineralisation in Upper Palaeozoic strata of South-West Cork, Ireland and related areas., Ph.D., University of Leicester.
- STARKEY, J., 1960, Studies on the Geology and Mineralogy of the Maamturk Area of Connemara, Eire., Ph.D., University of Liverpool
- STEED, G.M., 1975, The geology and mineralisation of Gortdrum district, Ireland., Ph.D., Imperial College of Science and Technology, University of London.
- STEED, G.M., 1975, The Gortdrum orebody and the nearby minor deposits., Ph.D., University College, Cardiff.
- STEWART, D.R.A., 1999, The occurrence, characterization and genesis of melanterite at Lisheen Mine, Co. Tipperary, Ireland., M.Sc., University of Leicester.
- TALBOT, V., 1973, Rock and soil trace element geochemistry of the Mace Head area, Co. Galway., M.Sc., University College, Galway.
- THORPE, T.M., 2001, A petrographic and cathodoluminescence study of part of the Navan Zn-Pb Deposit, Co. Meath, Ireland, Undergraduate Research Project., Imperial College.
- VISWANATHIA, W.N., 1959, The geology and mineralisation around the Allihies - Castletownbere area, Co. Cork., Ph.D., University of London.
- WAIN, D.E., 1973, Investigation of the lead-zinc soil anomalies at Lissmore, Co. Waterford., M.Sc., Leeds
- WALSH, J.J., 1961, The exploration of the anthracite seams of the Kanturk Coalfield of Northern Co. Cork., M.E., University College, Dublin.
- WATLING, R.J., 1972, Mercury and associated trace elements in the primary environment, Keel prospect, Co. Longford, Ireland., Ph.D., Imperial College, London.
- WHEATLEY, C.J.V., 1970, The environment of cupriferous ore bodies in the Lower Palaeozoic strata of S.E. Ireland and N. Wales., Ph.D., University of London.
- WHEATLEY, C.J.V., 1971, Economic geology of the Avoca mineralised belt, S.E. Ireland and Parys Mountain, Anglesey, Ph.D., Imperial College, London.
- WHITBREAD, D.R., 1963, Facies change in the Carboniferous successions of South Ireland, Ph.D., Reading University.
- WILLIAMS, F.M., 1984, Isotopic and Mineralogical studies of the Avoca stratabound sulphide deposit and brecciated sulphide bearing veins in the Leinster Granite., Ph.D., National University of Ireland.
- WILLIAMS, F., 1984, Isotopic and petrographic studies on the copper ore deposit at Avoca, Co. Wicklow., Ph.D., University College Dublin

- YOUNG, R.D., 1971, The interpretation of regional geochemical patterns in Northern Ireland., Ph.D., Imperial College, London.