REFERENCES

- Afifi, A.M. and Essene, E.J., 1988. MINFILE: A microcomputer program for storage and manipulation of chemical data on minerals. *American Mineralogist*, v.73: 446-448.
- Anderson, E.M., 1905. The dynamics of faulting. *Edinburgh Geological Society Transactions*, v.8: 393-402.
- Andrew, A.S., Heinrich, C.A., Wilkins, R.W.T. and Patterson, D.J., 1989. Sulphur isotope systematics of copper ore formation at Mount Isa, Australia. *Economic Geology*, v.84: 1614-1626.
- Baker, E.M., Kirwin, D.J. and Taylor, R.G., 1986. *Hydrothermal breccia pipes*. James Cook University of North Queensland EGRU Contribution 12: 45 p.
- Ball, L.C., 1908.Cloncurry copper mining district, parts 1 and 2. *Geological Survey* of Queensland Publication 215.
- Barnes, H.L., 1979. Solubilities of ore minerals. In Barnes, H.L. (ed.), *Geochemistry* of hydrothermal ore deposits. Wiley Interscience: 404-460.
- Barrett, T.J. and Anderson, G.M., 1988. The solubility of sphalerite and galena in 1-5 m NaCl solutions to 300°C. *Geochimica-et Cosmochimica Acta*, v.52: 813-820.
- Beardsmore, T.J., Newbery, S.P. and Laing, W.P., 1988. The Maronan Supergroup: an inferred early volcanosedimentary rift sequence in the Mount Isa Inlier, and its implications for ensialic rifting in the Middle Proterozoic of northwest Queensland. *Precambrian Research*, v.40/41: 487-507.
- Bell, T.H., 1983. Thrusting and duplex formation at Mount Isa, Queensland, Australia. *Nature*, v.304: 493-497.
- Bell, T.H., 1985. Deformation partitioning and porphyroblast rotation in metamorphic rocks: a radical reinterpretation. *Journal of metamorphic Geology*, v.3: 109-118.
- Bell, T.H., 1986. Foliation development and refraction in metamorphic rocks:
 reactivation of earlier foliations and decrenulation due to shifting patterns of deformation partitioning. *Journal of metamorphic Geology*, v.4: 421-444.
- Bell, T.H. and Duncan, A.C., 1978. A rationalized and unified shorthand terminology for lineations and fold axes in tectonites. *Tectonophysics*, v.47: T1-T5.

- Bell, T.H., Perkins, W.G. and Swager, C.P., 1988. Structural controls on the development and localization of syntectonic copper mineralization at Mount Isa, Queensland. *Economic Geology*, v.83: 69-85.
- Bell, T.H. and Rubenach, M.J., 1983. Sequential porphyroblast growth and crenulation cleavage development during progressive deformation. *Tectonophysics*, v.92: 171-194.
- Bell, T.H., Rubenach, M.J. and Fleming, P.D., 1986. Porphyroblast nucleation, growth and dissolution in regional metamorphic rocks as a function of deformation partitioning during foliation development. *Journal of metamorphic Geology*, v.4: 37-67.
- Bennett, E.M., 1965. Lead-zinc-silver and copper deposits of Mount Isa. In McAndrew, J. (ed.). Geology of Australian Ore Deposits. 8th Commonwealth Mining and Metallurgy Congress, Melbourne, Australasian Institute of Mining and Metallurgy, volume 1: 233-246.
- Bennett, D.G. and Barker, A.J., 1992. High salinity fluids: the result of retrograde metamorphism in thrust zones. *Geochimica et Cosmochimica Acta*, v.56: 81-95.
- Berkman, 1989. Field Geologists' Manual. Australasian Institute of Mining and Metallurgy Monograph 9, 3rd edition: 382 pp.
- Bettess, D., 1987. The structural evolution of the Deighton Thrust Nappe Complex, Mount Isa, Queensland. International Conference on Deformation of Crustal Rocks, Mount Buffalo, Australia, 2-6 February, Geological Society of Australia, Abstracts No. 19, 1987: 41-42.
- Bird, P., 1978. Initiation of intracontinental subduction in the Himalaya. Journal of Geophysical Research, B83: 4975-4987.
- Bird, P., 1979. Continental delamination and the Colorado Plateau. Journal of Geophysical Research, B84: 7561-7571.
- -Bird, P. and Baumgardner, J., 1981. Steady propagation of delamination events. Journal of Geophysical Research, B86: 4891-4903.
- Blake, D.H., 1980. The early geological history of the Proterozoic Mount Isa Inlier, northwestern Queensland: an alternative interpretation. *B.M.R. Journal of Australian Geology and Geophysics*, v.5: 243-256.
- Blake, D.H., 1982. A review of the Corella Formation, Mount Isa Inlier, Queensland. BMR Journal of Australian Geology and Geophysics, v.7: 113-118.

- Blake, D.H., Bultitude, R.J. and Donchak, P.J.T., 1981a. Definitions of newly named and revised Precambrian stratigraphic and intrusive rock units in the Duchess and Urandangi 1:250 000 Sheet areas, northwestern Queensland. *Bureau of Mineral Resources, Australia, Report 233* (Microform MF164).
- Blake, D.H., Bultitude, R.J. and Donchak, P.J.T., 1981b. Summary of new and revised Precambrian stratigraphic nomenclature in the Duchess and Urandangi 1:250 000 Sheet areas, northwestern Queensland. *Queensland Government Mining Journal*, v.82: 580-589.
- Blake, D.H., Bultitude, R.J., Donchak, P.J., Wyborn, L.A.I. and Hone, I.G., 1984. Geology of the Duchess-Urandangi Region, Mount Isa Inlier, Queensland. Bureau of Mineral Resources, Geology and Geophysics Bulletin 291: 96 pp.
- Blake, D.H., Jaques, A.L. and Donchak, P.J.T., 1983. Selwyn Region, Queensland. Bureau of Mineral Resources, Australia 1:100 000 Map Commentary: 29 pp.
- Blake, D.H. and Page, R.W., 1988. Early Proterozoic migmatitic basement in the Kalkadoon-Leichhardt Belt of the Mount Isa Inlier, northwestern Queensland. B.M.R. Journal of Australian Geology and Geophysics, v.10: 323-328.
- Boctor, N.Z., Popp, R.K. and Frantz, J.D., 1980. Mineral-solution equilibria IV. Solubilities and thermodynamic properties of FeCl₂° in the system Fe₂O₃-H₂-H₂O-HCl. *Geochimica et Cosmochimica Acta*, v.44: 1509-1518.
- Boctor, N.Z., Popp, R.K. and Frantz, J.D., 1980. Mineral-solution equilibria IV. Solubilities and the thermodynamic properties of FeCl₂° in the system Fe₂O₃-H₂-H₂O-HCl. *Geochimica et Cosmochimica Acta*, v.44: 1509-1518.
- Boecke, H.E., 1911. Luslichkeiten der eisenchlorii und hydrate. Sitzungsber. Kgl. Akad. Wiss. (Berlin), v.24: 632-638.
- Bohlen, S.R., 1987. Pressure-temperature-time paths and a tectonic model for the evolution of granulites. *Journal of Geology*, v.95: 617-632.
- Borisenko, A.S., 1977. Cryometric technique applied to studies of the saline composition of solution in gaseous fluid inclusions in minerals. Akad. Nauk SSSR, Sib. Otdel., Geol. i. Geofiz, v.8: 16-27 (in Russian; English abstract).
- Bortnikov, N.S., Genkin, A.D., Dobrovol'skaya, M.G., Muravitskaya, G.N. and Filimonova, A.A., 1991. The nature of chalcopyrite inclusions in sphalerite: Exsolution, coprecipitation, or "disease"? *Economic Geology*, v.86: 1070-1082.
- Bowers, T.S., 1991. The deposition of gold and other metals: Pressure-induced fluid immiscibility and associated stable isotope signatures. *Geochimica et Cosmochimica Acta*, v.55: 2417-2434.

- Bowers, T.S. and Helgeson, H.C., 1983. Calculation of the thermodynamic and geochemical consequences of nonideal mixing in the system H_2O-CO_2 -NaCl on phase relations in geologic systems: Equation of state for H_2O-CO_2 -NaCl fluids at high pressures and temperatures. *Geochimica et Cosmochimica Acta*, v.47: 1247-1275.
- Broadhurst, E., 1938. The Hampden copper mines, Kuridala, Cloncurry District. Aerial Geological and Geophysical Survey of Northern Australia, Queensland Report 14: 8 pp.
- Brooks, J.H., 1960. The uranium deposits of northwestern Queensland. *Geological* Survey of Queensland, Publication 297.
- Brooks, J.H., 1977. Small-scale copper mining in the Mount Isa and Cloncurry Mining Fields, 1976. *Queensland Government Mining Journal*, v.78: 446-463.
- Brooks, J.H., Wilson, I.H. and Sawers, J.D., 1975. Minor copper deposits in the Mount Isa/Cloncurry district. In Knight, C.L. (ed.). Economic Geology of Australia and Papua New Guinea 1, Metals. Australasian Institute of Mining and Metallurgy: 392-396.
- Brown, W.M., Kwak, T.A.P. and Askins, P.W., 1984. Geology and geochemistry of a F-Sn-W skarn system - The Hole 16 deposit, Mt. Garnet, North Queensland, Australia. *Australian Journal of Earth Sciences*, v.31: 317-342.
- Bultitude, R.J., Gardner, C.M. and Noon, T.A., 1977. A recently discovered unconformity near the base of the Proterozoic Cloncurry Complex south of Mount Isa, northwestern Queensland. *B.M.R. Journal of Australian Geology and Geophysics*, v. 2: 311-314.
- Bultitude, R.J. and Wyborn, L.A.I., 1982. Distribution and geochemistry of volcanic rocks in the Duchess-Urandangi region, Queensland. *BMR Journal of Australian Geology and Geophysics*, v.7: 99-112.
- Cameron, W.E., 1901. Geological observations in north-western Queensland. Queensland Department of Mining Annual Report 1900-1902 (Geological Survey of Queensland Publication 159): 186-191.
- Carter, E.K. and Brooks, J.H., 1965. Geology and mineralization of north-western Queensland. In McAndrew, J. (ed.). *Geology of Australian Ore Deposits*. 8th Commonwealth Mining and Metallurgy Congress, Melbourne, volume 1: 221-232.
- Carter, E.K., Brooks, J.H. and Walker, K.R., 1961. The Precambrian mineral belt of northwestern Queensland. *Bureau of Mineral Resources, Australia, Bulletin* 51: 344pp.
- Carter, E.K. and Öpik, A.A., 1963. Duchess, Queensland: 4-Mile Geological Series. Bureau of Mineral Resources, Australia, Explanatory Notes SF/54-6.

- Chou, I-M. and Eugster, H.P., 1977. Solubility of magnetite in supercritical chloride solutions. *American Journal of Science*, v.277: 1296-1314.
- Clayton, R.N. and Mayeda, 1963. The use of bromine pentafluoride in the extraction of oxygen from oxides and silicates for isotopic analysis. *Geochimica et Cosmochimica Acta*, v.27: 43-52.
- Clemens, J.D., 1992. Partial melting and granulite genesis: a partisan overview. *Precambrian Research*, 55: 297-301.
- Coleman, M.L., Shepherd, T.J., Durham, J.J., Rouse, J.E. and Moore, G.R., 1982. Reduction of water with zinc for hydrogen isotope analysis. *Analytical Chemistry*, v.54: 993-995.
- Connor, A.G., Johnson, I.R. and Muir, M.D., 1982. The Dugald River zinc-lead deposit, northwest Queensland, Australia. *Proceedings of the Australasian Institute of Mining and Metallurgy*, v.283: 1-19.
- Cotton, F.A. and Wilkinson, G., 1980. Advanced inorganic chemistry: A comprehensive text. Fourth edition, John Wiley and Sons, Inc.: 1396 pp.
- Crawford, M.L., 1983. Phase equilibria in aqueous fluid inclusions. In Hollister, L.S. and Crawford, M.L. (eds.), *Fluid inclusions: Applications to Petrology*. Mineralogical Association of Canada Short Course Handbook, v.6: 75-100.
- Crerar, D.A. and Barnes, H.L, 1976. Ore solution chemistry. V. Solubilities of chalcopyrite and chalcocite assemblages in hydrothermal solution at 200° to 350°C. *Economic Geology*, v.71: 772-794.
- Daintree, R., 1872. Notes on the geology of the Colony of Queensland. *Quarterly* Journal of the Geological Society of London, v.28(3): 271-360.
- Davidson, G.J., 1988. Types of tourmaline and exploration applications in the Selwyn District. University of Tasmania: Proterozoic gold-copper project - Workshop Manual No. 2, December, 1988: 143-159.
- Davidson, G.J., Large, R.R., Kary, G.L. and Osborne, R., 1989. The deformed iron-formation-hosted Starra and Trough Tank Au-Cu mineralization: A new association from the Proterozoic Eastern Succession of Mount Isa, Australia. In Keays, R.R., Ramsay, W.R.H. and Groves, D.I. (editors). *The Geology of Gold Deposits: The Perspective in 1988*. Economic Geology Monograph 6: 135-150.
- Deer, W.A., Howie, R.A. and Zussman, J., 1966. An introduction to the rock-forming _ minerals. Longman: 528 pp.

- Deines, P. and Gold, D.P., 1973. The isotopic composition of carbonatite and kimberlite carbonates and their bearing on the isotopic composition of deep-seated carbon. *Geochimica et Cosmochimica Acta*, v.37: 1709-1733.
- Derrick, G.M., 1982. A Proterozoic rift zone at Mount Isa, Queensland, and implications for mineralisation. *BMR Journal of Australian Geology and Geophysics*, v.7: 81-92.
- Derrick, G.M., Wilson, I.H. and Hill, R.M., 1976a. Revision of stratigraphic nomenclature in the Precambrian of northwestern Queensland. I. Tewinga Group. *Queensland Government Mining Journal*, v.77: 97-102.
- Derrick, G.M., Wilson, I.H. and Hill, R.M., 1976b. Revision of stratigraphic nomenclature in the Precambrian of northwestern Queensland. II. Haslingden Group. *Queensland Government Mining Journal*, v.77: 300-306.
- Derrick, G.M., Wilson, I.H. and Hill, R.M., 1976c. Revision of stratigraphic nomenclature in the Precambrian of northwestern Queensland. III. Mount Isa Group. *Queensland Government Mining Journal*, v.77: 403-405.
- Derrick, G.M., Wilson, I.H. and Hill, R.M., 1976d. Revision of stratigraphic nomenclature in the Precambrian of northwestern Queensland. IV. Malbon Group. *Queensland Government Mining Journal*, v.77: 515-517.
- Derrick, G.M., Wilson, I.H. and Hill, R.M., 1976e. Revision of stratigraphic nomenclature in the Precambrian of northwestern Queensland. V. Soldiers Cap Group. *Queensland Government Mining Journal*, v.77: 601-604.
- Derrick, G.M., Wilson, I.H. and Hill, R.M., 1977a. Revision of stratigraphic nomenclature in the Precambrian of northwestern Queensland. VI. Mary Kathleen Group. *Queensland Government Mining Journal*, v.78: 15-23.
- Derrick, G.M., Wilson, I.H. and Hill, R.M., 1977b. Revision of stratigraphic nomenclature in the Precambrian of northwestern Queensland. VII. Mount Albert Group. *Queensland Government Mining Journal*, v.78: 113-116.
- Derrick, G.M., Wilson, I.H. and Hill, R.M., 1978. Revision of stratigraphic nomenclature in the Precambrian of northwestern Queensland. VIII. Igneous rocks. *Queensland Government Mining Journal*, v.78: 151-156.
- Derrick, G.M., Wilson, I.H. and Sweet, I.P., 1980. The Quilalar and Surprise Creek Formations - new Proterozoic units from the Mount Isa Inlier: their regional sedimentology and application to regional correlation. *Bureau of Mineral Resources Journal of Australian Geology and Geophysics*, v.5: 215-223.
- Devlin, S.P., 1980. Metamorphism, metasomatism and mineralization, Mount Cobalt, northwestern Queensland. *B.Sc. Honours thesis*, University of Sydney (unpublished): 103 pp.

- Dimo, G., 1973. Report on Mt. Elliott copper prospect, N.W. Queensland. Anaconda Australia Inc. unpublished report, March 1973: 23 text pages, 7 plates, 4 appendices.
- Dimo, G., 1975. Precambrian geology and copper mineralization of the Mount Elliott area, northwest Queensland. *M.Sc. (coursework) thesis*, James Cook University of North Queensland (unpublished).
- Donchak, P.J.T., Blake, D.H., Noon, T.A. and Jaques, A.L., 1983. Kuridala Region, Queensland. Bureau of Mineral Resources, Australia 1:100 000 Map Commentary: 32 pp.
- Dunstan, B., 1913. Queensland mineral index. Geological Survey of Queensland Publication 241.
- Eadington, P.J., 1983. A fluid inclusion investigation of ore formation in a tinmineralized granite, New England, New South Wales. *Economic Geology*, v.78: 1204-1221.
- Edwards, A.B. and Baker, G., 1953. Scapolitization in the Cloncurry District of north-western Queensland. *Journal of the Geological Society of Australia*, v.1: 1-33.
- Ekström, T.K., 1972. The distribution of fluorine among some coexisting minerals. Contributions to Mineralogy and Petrology, v.34: 192-200.
- Ellis, A.J., 1959. The solubility of calcite in carbon dioxide solutions. American Journal of Science, v.257: 354-365.
- Ellis, A.J., 1963. The solubility of calcite in sodium chloride solutions at high temperatures. *American Journal of Science*, v.261: 257-267.
- England, P.C. and Richardson, S.W., 1977. The influence of erosion upon the mineral facies of rocks from different metamorphic environments. *Journal of the Geological Society, London*, 134: 201-213.
- Etheridge, M.A., 1983. Differential stress magnitudes during regional deformation and metamorphism: Upper bound imposed by tensile fracturing. *Geology*, v.11: 231-234.
- Etheridge, M.A., Wall, V.J. and Vernon, R.H., 1983. The role of the fluid phase during regional metamorphism and deformation. *Journal of metamorphic Geology*, v.1: 205-226.
- Eugster, H.P. and Wones, D.R., 1962. Stability relations of the ferruginous biotite, annite. *Journal of Petrology*, v.3: 82-125.

- Faure, G., 1986. Principles of isotope geology, 2nd edition. John Wiley and Sons (New York): 589p.
- Frondel, C. and Collette, R.L., 1957. Synthesis of tourmaline by reaction of mineral grains with NaCl-H3BO3 solution, and its implications in rock metamorphism. *American Mineralogist*, v.42: 754-758.
- Gehrig, M., 1980. Phasengleichgewichte und PVT-Daten ternärer Mischungen aus Wasser, Kohlendioxid und Natriumchlorid bis 3 kbar und 550°C. *Ph.D. Thesis*, University of Karlsruhe, Hochschul Verlag, Freiberg (unpublished).
- Glikson, A.Y., Derrick, G.M., Wilson, I.H. and Hill, R.M., 1976. Tectonic evolution and crustal setting of the middle Proterozoic Leichhardt River Fault Trough, Mount Isa region, northwestern Queensland. BMR Journal of Australian Geology and Geophysics, v.1: 115-129.
- Gomez, B., 1991. BHP uncovers rich silver deposit. *The Australian*, December 20, 1991.
- Grimwade, F.S., 1991. Mount Fort Constantine Joint Venture. Joint Public Announcement 91-59. Western Mining Corporation Holdings Limited.
- Hammond, R.L., 1987. The influence of deformation partitioning on dissolution and solution transfer in low-grade tectonic melange. *Journal of metamorphic Geology*, v.5: 195-211.
- Heinrich, C.A., Andrew, A.S., Wilkins, R.W.T. and Patterson, D.J., 1989. A fluid inclusion and stable isotope study of synmetamorphic copper ore formation at Mount Isa, Australia. *Economic Geology*, v.84: 529-550.
- Hill, E.J., 1987a. Refolded folds, Eastern Mary Kathleen Fold Belt, northwest Queensland. *International Conference on Deformation of Crustal Rocks*, Mount Buffalo, Australia, 2-6 February, Geological Society of Australia, Abstracts No. 19, 1987, p.25.
- Hill, E.J., 1987b. The Tommy Creek area, northwest Queensland. International Conference on Deformation of Crustal Rocks, Mount Buffalo, Australia, 2-6 February, Geological Society of Australia, Abstracts No. 19, 1987: 26.
- Hoefs, J., 1980. Stable isotope geochemistry. Springer-Verlag (Berlin, Heidelberg, New York): 208 pp.
- Holcombe, R., Pearson, P.J. and Oliver, N.H.S., 1987. The Mary Kathleen Fold Belt, northwest Queensland: geometry and timing of deformation. *International Conference on Deformation of Crustal Rocks*, Mount Buffalo, Australia, 2-6 February, Geological Society of Australia, Abstracts No. 19, 1987: 35-36.
- Holland, H.D., 1972. Granite, solutions and base metal deposits. *Economic Geology*, v.67: 281-301.

- Holland, H.D. and Malinin, S.D., 1979. The solubility and occurrence of non-ore minerals. In Barnes, H.L. (ed.), *Geochemistry of hydrothermal ore deposits*, Wiley Interscience: 461-508.
- Honman, C.S., 1938. The Mount Elliott-Hampden area, Cloncurry District. Aerial Geological and Geophysical Survey of Northern Australia, Queensland Report 22: 12 pp.
- Houseman, G.A., McKenzie, D.P. and Molnar, P., 1981. Convective instability of a thickened boundary layer and its relevance for the thermal evolution of continental convergent belts. *Journal of Geophysical Research*, B86: 6115-6132.
- Hughes, J.M., Cameron, M. and Crowley, K.D., 1989. Structural variations in natural F, OH, and Cl apatites. *American Mineralogist*, v.74: 870-876.
- Jack, R.L., 1885. Six reports of the geological features of part of the district to be traversed by the proposed trans-continental railway. *Parliamentary paper*, reprinted with revisionary notes in 1898 as *Bulletin of the Geological Survey* of *Queensland*, 10 (publication 136).
- Ishihara, S., 1981. The granitoid series and mineralization. *Economic Geology* 75th Anniversary Volume: 458-484.
- Jaques, A.L., Blake, D.H. and Donchak, P.J.T., 1982. Regional metamorphism in the Selwyn Range area, northwest Queensland. *B.M.R. Journal of Australian Geology and Geophysics*, v.7: 181-196.
- Joplin, G.A. and Walker, K.R., 1961. The Precambrian granites of northwest Queensland. *Proceedings of the Royal Society of Queensland*, v.72(2): 21-57.
- Kendall, C., Chou, I.-M. and Coplen, T.B., 1983. Salt effect on oxygen isotope equilibria. *Transactions of the American Geophysical Union (EOS)*, v.64: 334-335.
- Kennedy, K.H., 1979. The profits of boom: a short history of the Cloncurry copper field. In *Lectures on North Queensland History*, 3rd series, James Cook University of North Queensland publication. 34 pp. and 3 pages of plates.
- Kidd, P., 1981. Petrography of thin and polished sections of five samples from a drill hole, SWAN prospect, Queensland. Unpublished report to Amoco Minerals Australia Company, 30th June: 20 pp.
- Korzhinskiy, M.A., 1981. Apatite solid solutions as indicators of the fugacity of HCl^o and HF^o in hydrothermal fluids. *Geochemistry International*, v.18(3): 44-60.
- Kröner, A., 1991. Tectonic evolution in the Archaean and Proterozoic. *Tectonophysics*, v.187: 393-410.

- Krosch, N.J., 1981. Small-scale mining activity: Mount Isa-Cloncurry region 1979. Queensland Government Mining Journal, v.82: 62-74.
- Kwak, T.A.P., Brown, W.M., Abeysinghe, P.B. and Tan, T.H., 1986. Fe solubilities in very saline hydrothermal fluids: Their relation to zoning in some ore deposits. *Economic Geology*, v.81: 447-465.
- Kwak, T.A.P. and Tan, T.H., 1981. The importance of CaCl₂ in fluid composition trends evidence from the King Island (Dolphin) skarn deposit. *Economic Geology*, v.76: 955-960.
- Laing, W.P., 1983. Observations on the geological framework of The Starra Ironstone and Mount Dore gold and copper mineralizations, Selwyn District, northwest Queensland. Amoco Minerals Australia Company unpublished report, November 1983: 15pp.
- Laing, W.P., 1991. Base metal + gold mineralization styles in the Cloncurry Terrane. Proceedings of the Base Metal Deposits Symposium, Townsville, April 1991. James Cook University of North Queensland Economic Geology Research Unit Contribution 38: 77-88.
- Laing, W.P., Rubenach, M. and Switzer, C.K., 1988. The Starra gold-copper deposit - syndeformational metamorphic mineralisation located in a folded early regional zone of decollement. Eighth Australian Geological Congress, Brisbane, February 1988, *Geological Society of Australia Abstracts 21*: 229.
- Leake, B.E., 1978. Nomenclature of amphiboles. *American Mineralogist*, v.63: 1023-1052.
- Leishman, J., 1978. Structural analysis of the Mount Dore Prospect. Unpublished report to Amoco Minerals Australia Company, Geoscience Field Surveys: 4 pages plus 1:1000 map sheet.
- Leishman, J., 1983. Report on 1:25 000, 1:5000 and 1:1000 geological mapping, Starra/Selwyn area, northwestern Queensland. Amoco Minerals Australia Company unpublished report, December 1983: 27 pp.
- Levinson, A.A., 1974. Introduction to Exploration Geochemistry. Applied Publishing, Calgary.
- Ligang, Z., Jingxiu, L., Huanbo, Z. and Zhensheng, C., 1989. Oxygen isotope fractionation in the quartz-water-salt system. *Economic Geology*, v.84: 1643-1650.
- Linke, W.G., 1965. Solubilities of inorganic and metal organic compounds, 4th edition: American Chemical Society, v.1 and 2: 1050p.

- Locsei, J., 1977. Pegmont: a stratiform Pb-Zn deposit in the Precambrian of northwest Queensland. *Proceedings of the Australasian Institute of Mining and Metallurgy*, v.262: 25-27.
- Loosveld, R.J.H., 1987. A complex fold nappe within the Soldiers Cap Group, Mount Isa Inlier, Queensland, Australia. *International Conference on Deformation of Crustal Rocks*, Mount Buffalo, Australia, 2-6 February, Geological Society of Australia, Abstracts No. 19, 1987: 45-46.
- Loosveld, R.J.H., 1989a. The synchronism of crustal thickening and high T/low P metamorphism in the Mount Isa Inlier, Australia. Part I: An example, the central Soldiers Cap belt. *Tectonophysics*, v.158: 173-190.
- Loosveld, R.J.H., 1989b. The synchronism of crustal thickening and high T/low P metamorphism in the Mount Isa Inlier, Australia. 2. Fast convective thinning of mantle lithosphere during crustal thickening. *Tectonophysics*, v.165: 191-218.
- Loosveld, R.J.H. and Schreurs, G., 1987. Discovery of thrust klippen northwest of Mary Kathleen, Mount Isa Inlier, Australia. *Australian Journal of Earth Sciences*, v.34: 387-402.
- Luzhnaya, N.P. and Vereshtchetina, I.P., 1946. Sodium, calcium, magnesium chlorides in aqueous solutions at -57 to +25° (polythermic solubility). *Zhurnl. Prike. Khimii*, v.19: 723-733.
- Lynch, J.V.G., Longstaffe, F.J. and Nesbitt, B.E., 1990. Stable isotope and fluid inclusion indications of large-scale paleoflow, boiling, and fluid mixing in the Keno Hill Ag-Pb-Zn District, Yukon Territory, Canada. *Geochimica et Cosmochimica Acta*, v.54: 1045-1059.
- Malinin, S.D. and Kanukov, A.B., 1971. The solubility of calcite in homogeneous H_2O -NaCl-CO₂ systems in the 200-600°C temperature interval. *Geochemistry International*, v.8: 668-679.
- Manning, D.A.C. and Pichavant, M., 1984. The role of fluorine and boron in the generation of granitic melts. In Atherton, M.P. and Gribble, C.D. (eds.), *Migmatites, melting and metamorphism*. Proceedings of the Geochemistry Group of the Mineralogical Society. Shiva Geology Series: 94-109.
- Matsuhisa, Y., Goldsmith, J.R. and Clayton, R.N., 1979. Oxygen isotopic fractionation in the system quartz-albite-anorthite-water. *Geochimica et Cosmochimica Acta*, v.43: 1131-1140.
- Maynard, J.B., 1983. Geochemistry of sedimentary ore deposits. Springer-Verlag: 305pp.

McCaig, A.M., 1988. Deep fluid circulation in fault zones. Geology, v.16: 867-870.

- McCarthy, T.S. and Hasty, R.A., 1976. Trace element distribution patterns and their relationship to the crystallization of granitic melts. *Geochimica et Cosmochimica Acta*, v.40: 1351-1358.
- McKenzie, D., 1978. Some remarks on the development of sedimentary basins. Earth and Planetary Science Letters, 40: 25-32.
- McKinlay, J., ca. 1863. McKinlay's journal of exploration in the interior of Australia. Melbourne, Bailliere.
- Metzger, F.W., Kelly, W.C., Nesbitt, B.E. and Essene, E.J., 1977. Scanning electron miscroscopy of daughter minerals in fluid inclusions. *Economic Geology*, v.72: 141-152.
- Mora, C.I. and Valley, J.W., 1989. Halogen-rich scapolite and biotite: implications for metamorphic fluid-rock interaction. *American Mineralogist*, v.74: 721-737.
- Morimoto, M., 1988. Nomenclature of pyroxenes. *Mineralogical Magazine*, v.52: 535-550.
- Munoz, J.L., 1984. F-OH and Cl-OH exchange in micas with applications to hydrothermal ore deposits. In Bailey, S.W. (ed.), *Reviews in Mineralogy v.13 Micas*, Mineralogical Society of America: 469-493.
- Naumov, V.B. and Shapenko, V.V., 1980. Evidence from fluid inclusions on the iron concentrations in high-temperature chloride solutions. *Geochemistry International*, v.17(1): 125-131.
- Neiva, A.M.R., 1974. Geochemistry of tourmaline (schorlite) from granites, aplites and pegmatites from northern Portugal. *Geochimica et Cosmochimica Acta*, v.38: 1307-17.
- Newbery, S.P., 1990. The Middle Proterozoic Maronan Supergroup, Soldiers Cap Belt, Eastern Mount Isa Inlier: A rationalization of the geology and mineralization of a complexly deformed and metamorphosed terrane. Ph.D. Thesis, James Cook University of North Queensland (unpublished).
- Newbery, S.P., 1991. Iron-formation-hosted base metal mineralisation of the Cloncurry Terrane; Mount Isa Inlier. *Proceedings of the Base Metal Deposits -Symposium*, Townsville, April 1991. James Cook University of North Queensland Economic Geology Research Unit Contribution 38: 89-99.
- Newbery, S.P., Beardsmore, T.J. and Laing, W.P., in prep. The new Maronan Supergroup - some definitions, and implications for stratigraphic revision in the Cloncurry Fold Belt, northwest Queensland. Submitted to *Queensland Government Mining Journal*, September 1992.

. 1

- Newton, R.C. and Wood, B.J., 1979. Thermodynamics of water in cordierite and some petrologic consequences of cordierite as a hydrous phase. *Contributions to Mineralogy and Petrology*, v.68: 391-405.
- Nisbet, B.W., 1980. Progress report for the period August 30, 1978 to February 28, 1979. Cloncurry River and Selwyn Hematites projects. Combined A to P 1530M, 1550M, 1822M and 1824M, Queensland, Australia. Unpublished Amoco Minerals Australia Company Report 136.
- Nisbet, B.W., 1983. A brief study of the relationship between metamorphism, mineralisation and structure in the Selwyn Region, Northwestern Queensland. Geoscience Field Surveys Pty. Ltd. report to Amoco Minerals Australia Company (unpublished): 20 text pages, 8 figures, 8 plates, 3 appendices.
- Nisbet, B., Devlin, S.P. and Joyce, P., 1983; Geology and suggested genesis of cobalt-tungsten mineralisation at Mount Cobalt, northwestern Queensland. *Proceedings of the Australasian Institute of Mining and Metallurgy*, v.287: 9-17.
- Nye, P.B. and Rayner, E.O., 1940. The Cloncurry copper deposits, with special reference to the gold-copper ratios of the ores. *Aerial, Geological and Geophysical Survey of Northern Australia. Queensland.* Report number 35: 38 pp, 6 plates.
- Nyvlt, J.A., 1980. Aspects of metasomatic alteration, mineralization and geochemistry at the S.W.A.N. copper prospect, northwest Queensland. *B.Sc.* (*Honours*) thesis, University of Sydney (unpublished): 119pp.
- Oehler, D.Z., Schopf, J.W. and Kvenvolden, K.A., 1972. Carbon isotope studies of organic matter in Precambrian rocks. *Science*, v.175: 1246-1248.
- Ohmoto, H., 1972. Systematics of sulphur and carbon isotopes in hydrothermal ore deposits. *Economic Geology*, v.67: 551-578.
- Ohmoto, H., 1986. Stable isotope geochemistry of ore deposits. In Valley, J.W., Taylor, H.P., Jr. and O'Neil, J.R. (eds.), *Stable isotopes in high temperature geological processes*. Mineralogical Society of America Reviews in Mineralogy v.16: 491-559.
- Ohmoto, H. and Rye, R.O., 1979. Isotopes of sulphur and carbon. In Barnes, H.L. (ed.), *Geochemistry of hydrothermal ore deposits*. Wiley Interscience: 509-567.
- Oliver, J., 1986. Fluids expelled tectonically from orogenic belts: Their role in hydrocarbon migration and other geologic phenomena. *Geology*, v.14: 99-102.

- Oliver, N.H.S., Holcombe, R.J., Hill, E.J. and Pearson, P.J., 1991. Tectonometamorphic evolution of the Mary Kathleen Fold Belt, northwest Queensland: A reflection of mantle plume processes? *Australian Journal of Earth Sciences*, v.38: 425-256.
- Oliver, N.H.S., Valenta, R.K. and Wall, V.J., 1990. The effect of heterogeneous stress and strain on metamorphic fluid flow, Mary Kathleen, Australia, and a model for large-scale fluid circulation. *Journal of metamorphic Geology*, v.8: 311-331.
- Oliver, N.H.S. and Wall, V.J., 1987. Metamorphic plumbing systems in Proterozoic calc-silicates, Queensland, Australia. *Geology*, v.15: 793-796.
- O'Neil, J.R. and Taylor, H.P., Jr., 1967. The oxygen isotope and cation exchange chemistry of feldspars. *American Mineralogist*, v.52: 1414-1437.
- O'Neil, J.R., Clayton, R.N. and Mayeda, T.K., 1969. Oxygen isotope fractionation in divalent metal carbonates. *Journal of Chemical Physics*, v.51: 5547-5558.
- Ophel, M.A., 1980. Mineralogy and geochemistry of a copper-bearing breccia zone, Mount Dore, northwest Queensland. *B.Sc. (Honours) thesis*, University of Sydney (unpublished).
- Orville, P.M., 1975. Stability of scapolite in the system Ab-An-NaCl-CaCO₃ at 4 kb and 750°C. *Geochimica et Cosmochimica Acta*, v.<u>3</u>9: 1091-1105.
- Oxburgh, E.R. and Turcotte, D.L., 1974. Thermal gradients and regional metamorphism in overthrust terrains with special reference to the Eastern Alps. Schweiz. Miner. petrogr. Mittt., 54: 641-662.
- Page, R.W., 1978. Response of U-Pb zircon and Rb-Sr total rock and mineral systems to low-grade regional metamorphism in Proterozoic igneous rocks, Mount Isa, Australia. *Journal of the Geological Society of Australia*, v.25: 141-164.
- Page, R.W., 1981. Depositional ages of the stratiform base metal deposits at Mount Isa and McArthur River, based on U-Pb zircon dating of concordant tuff horizons. *Economic Geology*, v.76: 648-658.
- Page, R.W., 1983a. Timing of superposed volcanism in the Proterozoic Mount Isa inlier, Australia. *Precambrian Research*, v.21: 223-245.
- Page, R.W., 1983b. Chronology of magmatism, skarn formation and uranium mineralization, Mary Kathleen, Queensland, Australia, *Economic Geology*, v.78: 838-853.
- Page, R.W. and Bell, T.H., 1986. Isotopic and structural responses of granite to successive deformation and metamorphism. *Journal of Geology*, v.94: 365-379.

- Pearson, P.J., Holcombe, R.J. and Oliver, N.H.S., 1987. The Mary Kathleen Fold Belt, northwest Queensland: D₁ - a product of crustal extension? *International Conference on Deformation of Crustal Rocks*, Mount Buffalo, Australia, 2-6 February, Geological Society of Australia, Abstracts No. 19: 37-38.
- Perkins, W.G., 1984a. A study of the Mount Isa "silica dolomite" and copper orebodies, and their interpretation as products of a syn-tectonic hydrothermal system. *M.Sc. (coursework) Thesis*, James Cook University of North Queensland (unpublished).
- Perkins, W.G., 1984b. Mount Isa silica dolomite and copper orebodies: the result of a syn-tectonic hydrothermal alteration system. *Economic Geology*, v.79: 601-637.
- Phillips, W.J., 1972. Hydraulic fracturing and mineralization. Journal of the Geological Society of London, v.128: 337-359.
- Phillips, W.R., 1964. A numerical system of classification for chlorites and septechlorites. *Mineralogical Magazine*, v. 33: 1114-1124.
- Phillips, W.R. and Griffen, D.T., 1981. *Optical mineralogy: The nonopaque minerals.* W.H. Freeman and Company (San Francisco): 677p.
- Pichavant, M., 1981. An experimental study of the effect of boron on a watersaturated haplogranite at 1 kbar vapour pressure. *Contributions to Mineralogy and Petrology*, v.76: 430-439.
- Pichavant, M., 1983. Melt-fluid interaction deduced from studies of silicate- B_2O_3 - H_2O systems at 1 kbar. *Bulletin Mineralogie*, v.106: 201-211.
- Pohl, W., 1992. Defining metamorphogenic mineral deposits an introduction. Mineralogy and Petrology, v.45: 145-152.
- Potter, R.W., 1977. Pressure corrections for fluid inclusion homogenization temperatures based on the volumetric properties of the system NaCl-H₂O. United States Geological Survey Journal of Research, v.5(5): 603-607.
- Potter, R.W., II. and Clynne, M.A., 1978. Solubility of highly soluble salts in aqueous media Part I: NaCl, KCl, CaCl₂, Na₂SO₄ and K₂SO₄. United States Geological Survey Journal of Research, v.6(6): 701-705.
- Ramsay, C.R. and Davidson, L.R., 1969. The origin of scapolite in the regionally metamorphosed rocks of Mary Kathleen, Queensland, Australia. *Contributions to Mineralogy and Petrology*, v.25: 41-51.
- Ransom, D.M., 1986. Structural environment of the Starra auriferous ironstone deposits, Selwyn region, northwest Queensland. Cyprus Minerals Australia Company unpublished report: 32 pp.

- Reinhardt, J., 1992. Low-pressure, high-temperature metamorphism in a compressional tectonic setting: Mary Kathleen Fold Belt, northeastern Australia. Geological Magazine, v.129: 41-57.
- Reinhardt, J. and Hamilton, L.M., unpublished data, 1987. Retrograde kyanite in a low-pressure/high-temperature metamorphic terrain (Mary Kathleen fold belt, Australia): implications for the P-T-t history.
- Reinhardt, J. and Rubenach, M.J., 1989. Temperature-time relationships across metamorphic zones: evidence from porphyroblast-matrix relationships in progressively deformed metapelites. *Tectonophysics*, v.158: 141-161.
- Richard, L.R. and Clarke, D.B., 1990. AMPHIBOL: A program for calculating structural formulae and for classifying and plotting chemical analyses of amphiboles. *American Mineralogist*, v.75: 421-423.
- Richards, J.R., 1966. Some Rb-Sr measurements on granites near Mount Isa. Proceedings of the Australasian Institute of Mining and Metallurgy, v.288: 19-23.
- Richards, J.R., Cooper, J.A. and Webb, A.W., 1963; K-Ar ages on micas from the Precambrian region of northwest Queensland. *Journal of the Geological Society of Australia*, v.10: 301-312.
- Rickwood, P.C., 1968. On recasting analyses of garnet into end-member molecules. Contributions to Mineralogy and Petrology, v.18: 175-198.
- Robertson, C.W., 1982. The role of pre-existing sulphides in Cu-ore formation at Mount Isa, Queensland. BMR Journal of Australian Geology and Geophysics, v.7: 119-124.
- Rock, N.M.S., Webb, J.A., McNaughton, N.J. and Bell, G.D., 1987. Non-parametric estimation of averages for small-data-sets in isotope geoscience: a proposal. *Chemical Geology*, v.66: 163-177.
- Roedder, E., 1979. Fluid inclusions as samples of ore fluids. In Barnes, H.L. (ed.), Geochemistry of hydrothermal ore deposits. Wiley Interscience: 684-737.
- Roedder, E., 1984. *Fluid inclusions*. Mineralogical Society of America, Reviews in Mineralogy, v.12: 644p.
- Roedder, E. and Skinner, B.J., 1968. Experimental evidence that fluid inclusions do not leak. *Economic Geology*, v.63: 715-730.
- Rosenbaum, J. and Sheppard, S.M.F., 1986. An isotopic study of siderites, dolomites and ankerites at high temperatures. *Geochimica et Cosmochimica Acta*, v.50: 1147-1150.

- Rosenberg, P.E. and Holland, H.D, 1964. Calcite-dolomite-magnesite stability relations in solutions at elevated temperatures. *Science*, v.145: 700-701.
- Rye, R.O. and Ohmoto, H., 1974. Sulphur and carbon isotopes and ore genesis. *Economic Geology*, v.69: 826-842.
- Saint-Smith, E.C., 1924. Note on the occurrence of Cambrian strata near Mount Isa, Cloncurry gold and mineral field. *Queensland Government Mining Journal*, v.25: 411.
- Schimmel, F., 1928. Löslichkeiten und unwandlungspunkten der eisenchlorürhydrate in wäßriger lösung. Zeitschrift fur Anorganische Chemie, v.176: 285-288.
- Scott, K.M., 1986. Geochemistry and mineralogy of metasediments, Mount Dore copper deposit. Abstract, 8th Australian Geological Convention, Feb 16-21, 1986, Flinders University, Adelaide, Geological Society of Australia Abstracts number 15: 175-176.
- Scott, K.M., 1988. Mineralogical studies of primary and secondary minerals and their constraints upon the genesis of the Mount Dore Cu-Ag deposit, N.W. Queensland. C.S.I.R.O. Restricted Investigation Report 1763R: 22p.
- Scott, K.M., Goadby, S.C. and Morgan, N.C., 1984. Geochemistry and mineralogy of metasediments and granite associated with the Mount Dore Cu-Ag deposit, northwestern Queensland. C.S.I.R.O. Restricted Investigation Report 1489R: 33p.
- Scott, K.M. and Taylor, G.F., 1982. Eastern Creek Volcanics as the source of Cu at the Mammoth Mine, northwest Queensland. *BMR Journal of Australian* -*Geology and Geophysics*, v.7: 93-98.
- -Searl, R.A., 1952. Geology of the Western Syncline, Kuridala, Queensland. Bureau of Mineral Resources, Australia, Record 1952/38: 4 pp.
- Sharma, T. and Clayton, R.N., 1965. Measurement of O¹⁸/O¹⁶ ratios of total oxygen of carbonates. *Geochimica et Cosmochimica Acta*, v.29: 1347-1353.
- Sheppard, S.M.F. and Schwarcz, H.P., 1970. Fractionation of carbon and oxygen isotopes an magnesium between coexisting metamorphic calcite and dolomite. *Contributions to Mineralogy and Petrology*, v.26: 161-198.
- Shepherd, T.J., Rankin, A.H. ana Alderton, D.H.M., 1985. A practical guide to fluid inclusion studies. Blackie (Glasgow): 239p.
- Sibson, R.H., Moore, J. McM. and Rankin, A.H., 1975. Seismic pumping a hydrothermal fluid transport mechanism. *Journal of the Geological Society of London*, v.131: 653-659.

- Sibson, R.H., Robert, F. and Poulsen, K.H., 1988. High-angle reverse faults, fluidpressure cycling, and mesothermal gold-quartz deposits. *Geology*, v.16: 551-555.
- Sisson, V.B., 1987. Halogen chemistry as an indicator of metamorphic fluid interaction with the Ponder Pluton, Coast Plutonic Complex, British Columbia, Canada. *Contributions to Mineralogy and Petrology*, v.95: 123-131.
- Stanton, R.L. and Vaughan, J.P., 1979. Facies of ore formation. A preliminary account of the Pegmont deposit as an example of potential relations between small "iron formations" and stratiform sulphide ores. *Proceedings of the Australasian Institute of Mining and Metallurgy*, v.270: 25-38.
- Sterner, S.M., Hall, D.L. and Bodnar, R.J., 1988. Synthetic fluid inclusions. V. Solubility relations in the system NaCl-KCl-H₂O under vapour-saturated conditions. *Geochimica et Cosmochimica Acta*, v.52: 989-1005.
- Stewart, A.J., 1989. Extensional faulting as the explanation for the Deighton "Klippe" and other Mount Albert Group outliers, Mount Isa Inlier, northwestern Queensland. *Australian Journal of Earth Sciences*, v.36: 405-422.
- Stewart, A.J. and Williams, P.R., 1988. Early extension in the Mount Isa Inlier, and a solution to the problem of the Deighton Quartzite outliers. Eighth Australian Geological Congress, Brisbane, February 1988, Geological Society of Australia Abstracts 21: 381-382.
- Stockex Report, 1991. December report on exploration activity. Part 2. North Queensland: Kuridala Prospect: 92-101.
- Sullivan, C.J., 1953a. The Hampden copper mines, Kuridala. *Geology of Australian ore deposits*, 5th Empire Mining and Metallurgy Congress, Melbourne, 1953: 411-413.
- Sullivan, C.J., 1953b. Mount Elliott mine. *Geology of Australian ore deposits*, 5th Empire Mining and Metallurgy Congress, Melbourne, 1953: 414-416.
- Suzuoki, T. and Epstein, S., 1976. Hydrogen isotope fractionation between OHbearing minerals and water. *Geochimica et Cosmochimica Acta*, v.40: 1229-1240.
- Swager, C.P., 1983; Microstructural development of the silica-dolomite and copper mineralisation at Mount Isa, northwestern Queensland, with special emphasis on the timing and mechanism of mineralisation. *Ph.D. Thesis*, James Cook University of North Queensland (unpublished).
- Swager, C.P., 1985. Syndeformational carbonate replacement model for the copper mineralization at Mount Isa, Queensland: A microstructural study. *Economic Geology*, v.80: 107-125.

- Switzer, C.K., 1987. Influence of an early high-strain zone for the regional structural geometry, metamorphism and control on gold-copper mineralisation at Starra, northwest Queensland. *B.Sc. Honours thesis*, James Cook University of North Queensland (unpublished).
- Switzer, C.K., 1988. Structural environment of the Kuridala region, northwestern Queensland. Unpublished report to Metana Minerals N.L., January: 11pp.
- Switzer, C.K., Laing, W.P. and Rubenach, M.J., 1988. The Proterozoic Starra Au+Cu ironstone deposit syntectonic mineralization in a folded early regional zone of decollément. Bicentennial Gold '88, Melbourne, May 1988, *Geological Society of Australia Extended Abstracts 23*: 212-214.
- Tacker, R.C. and Stormer, J.C., Jr., 1989. A thermodynamic model for apatite solid solutions, applicable to high temperature geologic problems. *American Mineralogist*, v.74: 877-888.
- Taylor, H.P., Jr., 1974. The application of oxygen and hydrogen isotope studies to problems of hydrothermal alteration and ore deposition. *Economic Geology*, v.69: 843-883.
- Tracy, R.J. and Frost, B.R., 1991. Phase equilibria and thermobarometry of calcareous, ultramafic and mafic rocks, and iron formations. In Kerrick, D.M. (ed.), *Contact Metamorphism*, Reviews in Mineralogy Volume 26, Mineralogical Society of America: 207-289.
- Trommsdorff, V. and Skippen, G., 1986. Vapour loss ("boiling") as a mechanism for fluid evolution in metamorphic rocks. *Contributions to Mineralogy and Petrology*, v.94: 317-322.
- Truesdell, A.H., 1974. Oxygen isotope activities and concentrations in aqueous salt solutions at elevated temperatures: Consequences for isotope geochemistry. *Earth and Planetary Science Letters*, v.23: 387-396.
- Urabe, T., 1985. Aluminous granite as a source magma of hydrothermal ore deposits: an experimental study. *Economic Geology*, v.80: 148-157.
- van Dijk, P.M., 1991. Regional syndeformational mineralization in the western Mount Isa Block, Australia. *Economic Geology*, v.86: 278-301.
- van Everdingen, D.A., van Gool, J.A.M. and Vissers, R.L.M., 1992. QUICKPLOT: A microcomputer-based program for processing of orientation data. *Computers and Geosciences*, v.18: 183-287.
- Vaughan, J.P. and Stanton, R.L., 1984. Stratiform lead-zinc mineralization in the Kuridala Formation and Soldiers Cap Group, Mount Isa Block, NW Queensland. Proceedings of the Australasian Institute of Mining and Metallurgy Conference, Darwin, N.T., August 1984: 307-317.

- Vaughan, J.P. and Stanton, R.L., 1986. Sedimentary and metamorphic factors in the development of the Pegmont stratiform Pb-Zn deposit, Queensland, Australia. *Transactions o the Institute of Mining and Metallurgy*, v.B95: 94-121.
- Veizer, J. and Hoefs, J., 1976. The nature of O¹⁸/O¹⁶ and C¹³/C¹² secular trends in sedimentary carbonate rocks. *Geochimica et Cosmochimica Acta*, v.40: 1387-1395.
- Vernon, R.H., 1978. Porphyroblast-matrix microstructural relationships in deformed metamorphic rocks. *Geologische Rundschau*, v.67: 288-305.
- Wall, L.N., 1986. Geochemical orientation investigations of primary and secondary dispersions associated with gold in the Starra ironstones. Stage 1. Unpublished report to Cyprus Minerals Australia Company.
- Wall, L.N., 1987. Geochemical orientation investigations of primary and secondary dispersions associated with gold in the Starra ironstones. Stage 2. Unpublished report to Cyprus Minerals Australia Company.
- Walshe, J.L, 1986. A six-component chlorite solution model and the conditions of chlorite formation in hydrothermal and geothermal systems. *Economic Geology*, v.81: 681-703.
- Wells, P.R.A., 1980. Thermal models for the magmatic accretion and subsequent metamorphism of continental crust. *Earth and Planetary Science Letters*, 46: 253-265.
- Werre, Jr., R.W., Bodnar, R.J., Bethke, P.M. and Barton, Jr., P.B., 1979. A novel gas-flow fluid inclusion heating/freezing stage. *Geological Society of America Abstracts with Programs*, v.11: 539.
- Whalen, J.B., Britten, R.M. and McDougall, I., 1982. Geochronology and geochemistry of the Frieda River Prospect area, Papua New Guinea. *Economic Geology*, v.77: 592-616.
- White, A.J.R., 1959. Scapolite-bearing marbles and calc-silicate rocks from Tungkillo and Milendella, South Australia. *Geological Magazine*, v.96: 285-306.
- White, S., 1989. Structural controls on, and the origin and timing of ironstone and mineralization at Starra, northwest Queensland. *B.Sc. Honours thesis*, James Cook University of North Queensland (unpublished).
- White, W.C., 1957. The geology of the Selwyn area of north Queensland. Bureau of Mineral Resources, Australia, Record 1957/94 (amended 1963) (unpublished).
- Whitney, J.A., 1988. The origin of granite: The role and source of water in the evolution of granitic magmas. *Geological Society of America Bulletin*, 100: 1886-1897.

- Whitney, J.A., Hemley, J.J. and Simon, F.O., 1985. The concentration of iron in chloride solutions equilibrated with synthetic granitic compositions: The sulphur-free system. *Economic Geology*, v.80: 444-460.
- Wickham, S.M. and Oxburgh, E.R., 1985. Continental rifts as a setting for regional metamorphism. *Nature*, 318: 330-333.
- Wickham, S.M. and Oxburgh, E.R., 1987. Low-pressure regional metamorphism in the Pyrenees and its implications for the thermal evolution of rifted continental crust. *Philosophical Transactions of the Royal Society of London*, *Series A*, 321: 219-242.
- Williams, P.J. and Heinemann, M., 1991. The Maramungee zinc skarn: Implications for base metal exploration in the Cloncurry metamorphic terrane. *Proceedings* of the Base Metal Deposits Symposium, Townsville, April 1991. James Cook University of North Queensland Economic Geology Research Unit Contribution 38: 100-103.
- Williams-Jones, A.E. and Samson, I.M., 1990. Theoretical estimation of halite solubility in the system NaCl-CaCl₂-H₂O: Applications to fluid inclusions. *Canadian Mineralogist*, v.28: 299-304.
- Wilson, I.H., 1978. Volcanism on a Proterozoic continental margin in northwestern Queensland. *Precambrian Research*, v.7: 205-235.
- Wilson, I.H., Derrick, G.M. and Hill, R.M., 1972. Copper mineralization (excluding Mount Isa) in the Precambrian Cloncurry Complex of Northwest Queensland, Australia. 24th International Geological Congress, Section 4, Mineral Deposits: 234-240.
- Wilson, A.F. and Golding, S.D., 1988. Stable isotope constraints on fluid sources for granitoid- and metamorphic-hosted gold-quartz vein deposits in Eastern Australia. Bicentennial Gold '88, Melbourne, May 1988, Geological Society of Australia Extended Abstracts 23: 495-499.
- Winchell, A.N. and Winchell, H., 1964. The microscopical characters of artificial inorganic solid substances. New York, Academic Press: 439 pp.
- Winsor, C.N., 1983. Syntectonic vein and fibre growth associated with multiple slaty cleavage development in the Lake Moondarra area, Mount Isa, Australia. *Tectonophysics*, v.92: 195-210.
- Winsor, C.N., 1986. Intermittent folding and faulting in the Lake Moondarra area, Mount Isa, Queensland. *Australian Journal of Earth Sciences*, v.33: 27-42.
- Witt, W.K., 1988. Evolution of high-temperature hydrothermal fluids associated with greisenization and feldspathic alteration of a tin-mineralized granite, northeast Queensland. *Economic Geology*, v.83: 310-334.

- Wolf, K.H., 1970. A collection of scientific sayings and quotations: I, II and III. *Earth Science Reviews*, v.6: 289-296, 353-368, 467-472.
- Wood, J.R., 1975. Thermodynamics of brine-salt equilibria I. The systems NaCl-KCl-MgCl₂-CaCl₂-H₂O and NaCl-MgSO₄-H₂O at 25°C. *Geochimica et Cosmochimica Acta*, v.39: 1147-1163.
- Woolnough, W.G., 1912. Report on the geology of the Northern Territory. Bulletin of the Northern Territory of Australia, v.4.
- Wyborn, L.A.I. and Blake, D.H., 1982. Reassessment of the tectonic setting of the Mount Isa Inlier in the light of new field, petrographic, and geochemical data. *BMR Journal of Australian Geology and Geophysics*, v.7: 143.
- Wyborn, L.A.I., Page, R.W. and McCulloch, M.T., 1988. Petrology, geochronology and isotope geochemistry of the post-1820 Ma granites of the Mount Isa Inlier: mechanisms for the generation of Proterozoic anorogenic granites. *Precambrian Research*, v.40/41: 509-541.
- Yanatieva, O.K., 1946. Solubility polytherms in the system CaCl₂-NaCl-H₂O and CaCl₂-MgCl₂-H₂O. *Zhur. Prikladnoi Khimii*, v.19: 707-722.
- Yardley, B.W.D., 1985. Apatite composition and the fugacities of HF and HCl in metamorphic fluids. *Mineralogical Magazine*, v.49: 7-79.