Publications Richard Bedell

Coolbaugh, M.F, and Bedell, R.L. (2006) a Simplification of Weights of Evidence using a Density Function and Fuzzy Distributions; Geothermal Systems, Nevada; in GIS for the Geosciences Geological Association of Canada Special Paper 44 Jeff Harris pp. 115-130.

Bedell, R.L. (2006) A Hierarchy of Remote Sensing Techniques for Metals Exploration. Keynote Lecture December 5th 2006 at the Geological Society of London, UK.

Bedell, R.L. and Taranik, J. (2005) Remote Sensing and Mineral Exploration: A review; in Geological Society of America abstracts.

Bedell, R.L. and Coolbaugh, M. (2005) Spatial Probability Modeling as an Exploration Tool; in Geological Society of America abstracts.

Bedell, R.L. and Hudson, D.M. (2005) Geology, Mineralization and Remote Sensing of the Comstock District, Nevada; Geological Society of Nevada Field Trip Guidebook 10.

Bedell, R.L. ,Struhsacker, E. and Parratt, R. (2005) Remote Sensing for high level volcanic hosted epithermal gold mineralization, Bunce Prospect, Velvet Mining District, Pershing County Nevada; in Geological Society of Nevada Windows to the World Proceedings Volume.

Peppin, W.A. and Bedell, R.L. (2005) Expert Fuzzy/Holistic Classifier Applied to Hyperspectral Data Over Precious-Metal Prospects in the SWIR (2.0 to 2.4 um); in Geological Society of Nevada Windows to the World Proceedings Volume.

Bedell, R.L. (2002) Spatial probability modeling in the geosciences; Keynote lecture at the Brazilian Geological Congress September 2002 Bahia State Brazil.

Coolbaugh, M. and Bedell, R.L. (in press) A simplification of weights of evidence using a density function and fuzzy distributions: a comparison of probability modeling techniques in the designation of geothermal systems in Nevada; in GAC special Volume in GIS (2003).

Bedell R.L. (2001) ASTER satellite remote sensing: A significant leap in factual geologic mapping. National Geological Society of America Meeting Abstract Boston USA.

Bedell R.L.(2001) Geological Mapping with the ASTER satellite**:** New global satellite data that is a significant leap in remote sensing geologic and alteration mapping; Geological Society of Nevada Special Publication No. 33 Regional Tectonics and Structural Controls of Ore: The Major Gold Trends of Nevada, pp. 329-334.

Bedell R.L. (2000) GIS for the Geosciences; Short Course Volume for the National Geological Society of America Meeting Reno Nevada.

Bedell, R.L. (1999) Geological Imaging: principles and electromagnetic interaction; Geovison99 Conference Volume, Keynote lecture and paper, University of Liege Belgium.

Bedell, R.L. , Lei, Y., and Heston, G.S. (1997) Spatial data accuracy and its importance to effective mineral exploration; *In* “Proceedings of Exploration 97: Fourth Decennial International Conference on Mineral Exploration” edited by A.G. Gubins, 1997, pp. 89-96.

Bedell, R.L. Peppin, W., Lei, Y., Heston, G. (1996) Great Basin Exploration through Spatial Data at Homestake Mining Company, ERIM Conference Volume Las Vegas Nv.

Bedell R.L. (1995) GIS and Mineral Management; Keynote address 11th Annual Mining & Geothermal Landmen's Institute, Reno Nv.

Ebel, J.E. Bedell, R.L. and Urzua, A. (1995) A report on the seismic vulnerability of the State of Vermont, FEMA project submitted to the Vermont Emergency Management.

Bedell, R.L. (1994) Sources of error and rectification; Genasys Users Conference July 1994 Breckenridge Co.

Bedell R.L.(1993) Review Computers & Geoscience: Geographic Information. The yearbook of the Association of Geographic Information 1992/3 Edited by J. Cadoux-Hudson and D.I. Heywood; Computers & Geosciences.

Bedell R.L. (1992) Digital Mapping in Mining: An African Example; Mining Magazine, February 1992, pp. 86-89.

Bedell, R.L. (1992) ESRI Users conference: A geoscientists perspective ; Computer Oriented Geological Society (COGS) Newsletter.

Bedell R.L., Odinga, M., Niyondezo, S., Nkurikiye, L. Fernandez-Alonso, M. Trefois,Ph. (1990) Turbiditie-hosted Proterozoic gold exploration in the Kibaran Belt, Burundi, Central Africa; In Conference Proceedings, Remote Sensing: an operational technology for the mining and petroleum industries, International conference and exhibition 29-31 October 1990 London England, organised by the Institute of Mining and Metallurgy, pp. 175-189.

Bedell, R.L. (1990) Gold exploration and its relation to thrust tectonics in the Kibaran Belt Burundi, Africa; in conference abstracts Thrust Tectonics Royal Holloway and New Bedford College Egham UK, April 1990.

Bedell, R.L. (1989), Solving Problems with Digital Maps; In Computer Oriented Geological Society (COGS) Newsletter, November 1989.

Bedell, R.L. The use of AutoCAD for digital mapping; Workshop on Desktop GIS, University of Nottingham, May 24th, 1989.

Bedell, R.L. (1989) WARP: a program for rectifying maps due to shrinkage and changing map projections; Abstract, Survey and Mapping Conference University of Warwick.

Bedell, R.L. (1988) Image processing and geological workstations of the Future; Abstract British Geological Survey, May 1988.

Bedell, R.L., Kenyon, N., Scoon, A.(1988) Major Crustal Lineaments on SEASAT SAR and their off-shore extensions in the UK. Proceedings of IGARSS 88' Symposium, Edinburgh, Scotland, 13-16 September, 1988 pp. 747-750.

Bedell, R.L. (1988) The use of AutoCAD for Digital Mapping and the Warping of Spatial Data; Abstract Geological Information Group, Burlington House.

Bedell, R.L. (1988) Heat Flow and subsidence modelling of MVT Deposits; Special thematic session on the relations between oil and ore, Royal Holloway College, December 1988.

Bedell R.L. (1987) Edge Detection and the quest for gold in Tanzania; Proceedings Advances in Digital Image Processing, Remote Sensing Society pp. 12- 21.

Bedell, R.L.(1987) Pegmatite vein emplacement during pure shear; Shear Zones and Mineralization Conference University of Southampton U.K. October 1987, abstracts vol. .

Bedell, R.L. (1987) An application of analogue remote sensing imagery in the Guadalquivir Basin, Southern Spain; Petroleum Exploration and remote sensing Geological Society of London January 1987 abstracts vol.

Bedell, R.L. Image Processing of analogue data for geological investigations: Examples of Archean gold exploration in Tanzania and geology of the Guadalquivir Basin in Southern Spain; British Geological Survey December 1987, Abstract Volume.

Bedell, R.L. and Allan, T.D. (1987) Geological applications of ERS-1; British Geological Survey December 1987, Abstract Volume.

Bedell, R.L. (1986) Remote sensing and gold exploration: Archean Gold in Tanzania; Mineral Deposits Research Group Conference Southampton UK.

Bedell, R.L. (1986) Analogue and digital edge detection of airphotos and Landsat MSS: A remote quest for Archean age gold-bearing geological structures in Northern Tanzania. unpublished M.Sc. Thesis University of London.

Bedell, R.L. and Schwerdtner, W.M. (1983) Structural Controls of Uranium-ore bodies in the Madawaska Mines; Ontario Geoscience Research Grant Program, Grant 82, Ontario Geological Survey Open File Report 5462, 90 pp.

Bedell, R.L. (1982) Structural Controls of Uranium-Ore Bodies in the Madawaska Mines, Bancroft Area; Summary of Research, 1981-82, Ed. E.G. Pye Ontario Geological Survey Miscellaneous Paper 103, pp. 1-10.

Bedell, R.L. (1982) Influence of a metamorphosed Gabbro in the control of Uranium-bearing pegmatite dykes, Madawaska Mines Bancroft, Ontario; *in* Uranium in Granites, ed. Y.T. Maurice Geological Survey of Canada Paper 81-23, pp, 139-143.

Bedell, R.L. and Schwerdtner, W.M. (1981) Structural controls of U-ore bodies in the Madawaska Mines Area, Bancroft Ontario; Summary of Research, 1980-81, ed. E.G. Pye Ontario Geological Survey, Miscellaneous Paper 98, pp. 13-17.

Bedell, R.L. and Schwerdtner, W.M. (1981) Structural controls of U-ore bodies in the Madawaska Mines Area, Bancroft Ontario; Seminar Abstracts Ontario Geological Survey.

Bedell, R.L. Reid J.B. (1980) Immiscible ilmenite and sulfide liquids in a garnet clinopyroxenite dike from Salt Lake Crater, Hawaii; EOS vol. 61, no. 17.

Delaney, J.S, Bedell, R.L., Harlow, G.E., Nehru, C.E., Klimentidis, R., Prinz, M. (1980) Pyroxene overgrowth textures: evidence for rapid cooling from high temperatures in mesosiderites; Proceedings Lunar and Planetary Science Conference 11.

Delaney, J.S, Bedell, R.L., Klimentidis, R., Nehru, C.E., , Prinz, M. (1980) Olivine clasts in mesosiderites and howardites: clues to the nature of an achondrite parent body; Proceedings Lunar and Planetary Science Conference 11.

Delaney, J.S, Bedell, R.L., Klimentidis, R., Nehru, C.E., , Prinz, M. (1980) ALHA77219: A new Antarctic mesosiderite and a comparison with other mesosiderites and related achondrites; Proceedings Lunar and Planetary Science Conference 11.

Prinz, M., Nehru, C.E., Delaney, J.S., Harlow, G.E., and Bedell, R.L. (1980) Modal studies of mesosiderites and related achondrites, including the new mesosiderite ALHA 77219; Proceedings Lunar Planet Sci. Conf. 11th pp. 1055-1071.