

Curriculum Vitae

RAINER J. NEWBERRY
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Education:

Stanford University, Ph.D. in Geology, March 1980
Stanford University, M.S. in Geology, June 1978
Massachusetts Institute of Technology, B.S. in Geology, June 1975
Massachusetts Institute of Technology, B.S. in Chemistry, June 1975

Professional experience:

9/92 to present:	Professor of Economic Geology, University of Alaska
9/86 to 5/92:	Associate Professor of Economic Geology, University of Alaska
1985 to present:	APT Appointment with the U.S. Geological Survey
8/82 to 5/86:	Assistant Professor of Economic Geology, University of Alaska
6/82 to 9/82:	Economic Geologist, Alaska Div Geological & Geophys Surveys
9/80 to 5/82:	Acting Assistant Professor of Geochemistry, Stanford University
6/80 to 9/80:	Geologic Consultant to Union Carbide Expl Co, Vancouver, B.C.
1/80 to 6/80:	Post-doctoral Research Assoc., Dept Geology, Stanford University
6/77 to 10/77:	Geologist, ASARCO, Inc., Salt Lake City, Utah
6/76 to 10/76:	Exploration Geologist, Greatland Exploration Ltd., Anchorage, AK
1975 to 1978:	Teaching Assistant, Stanford University
1/76 to 6/76:	Research Assistant, USGS, Menlo Park, California
6/75 to 9/75:	Research Assistant, Nat'l Bu Standards, Gaithersburg, MD
1/74 to 6/74:	Research Assistant, MIT Geochronology Labs, Cambridge, MA
6/74 to 9/74:	Technician, U.S. Bureau of the Mint, Washington, D.C.

Invited speaker:

Canadian Geosciences Forum, December 1980, Yukon Territory, Canada
Arizona Geologic Society Symposium "The Relationship of Ore Deposits to Tectonics in the Southwest Cordillera", March 1981
Gordon Conference "Geochemistry of Ore Deposits", August 1981
University of California, Santa Barbara, November 1981
University of California, Berkeley, February 1982
USGS Alaska Branch, January 1983
Stanford University, May 1983
Symposium on ophiolites, GSC meeting, London, Ontario, May 1984
Dalton Highway mineral assessment, April 1985
Conference on granite-related mineral deposits, September 1985
Stanford University, March 1986
Symposium on granites, November 1987
Washington State University, March 1987
USGS Alaska Branch, December 1987
University of California, Los Angeles, January 1988
Juneau Mineral Deposits Conference, Juneau, April 1989
Cordilleran Mineral Deposits, GAC, Vancouver, B.C., May 1990

Juneau Mineral Deposits conference, Juneau, April 1991
Irish Society of Economic Geologists, April 1993
Metal Mining Society of Japan, October 1994
Hokkaido University, Japan, 1994
Alaska Miner's Association Short Courses 1996-99
Yukon Geoscience Forum Short Courses
Mineralized Skarn Deposits Short Course, Canadian Mineralogical Society, 1998
'Gold in 2000' Short Course, Fall, 2000
Alaska Geological Society, Spring 2001
Skarn Deposits Short Course, Alaska Miner's Assoc, Nov. 2003

Courses taught:

Geochemistry
Petrology
Mineralogy and Crystallography
Introductory Economic Geology
Advanced Economic Geology
Advanced Field Mapping
Geology of Skarn Deposits
Geology of Volcanogenic Massive Sulfide Deposits
Field Methods (co-taught)
Rock-Forming minerals (co-taught)
Mineral Resource Assessments
Geology of Mafic-Ultramafic Rocks and Associated Ore Deposits
Granites and Ore Deposits (co-taught)
Field Geology
Geologic Presentation Techniques (co-taught)
Seminar in Hardrock Geology
Reflected Light Microscopy
Introductory Geology
Geology of Alaska

Current research:

Tin and tungsten-related granites in Alaska and China
Skarn deposits in Alaska and Russia
Intrusion-related gold deposits
Gold- and tin-rich VMS deposits
Regional Geology and mineral resources of Interior Alaska
Regional Geology and mineral resources of the Seward Peninsula

PROFESSIONAL DEVELOPMENT

Honors and awards:

Usibelli Teaching Award, 2002-2003
Council for Advancement & Support of Education, Alaska Professor of the Year, 1991
College of Natural Sciences Meritorious Award, 1990
University of Alaska travel grant, 1990
University of Alaska travel grant, 1987
University of Alaska travel grant, 1985
University of Alaska faculty enrichment grant, 1984
Invited speaker, 1981 Gordon Conference "Geochemistry of Ore Deposits"
Doctoral fellowship, Department of Geology, Stanford University, 1975, 1979
NSF Doctoral Fellowship, Stanford University, 1976-1979
GSA Penrose Research Grant, 1978
Phi Beta Kappa and Sigma Xi, MIT Chapters, 1975
National Merit Scholarship winner, 1971

Professional meetings:

Geological Society of America
Geological Society of Canada
Alaska Miners Convention
American Association of Petroleum Geologists
Society of Geochemical Exploration
Canadian Institute Mining Special Conference on Granite-Related Ore Deposits
Magmatic Sulfide Field Conference
Nevada Geological Society Bulk Mineable Gold Conference
Yukon Geoscience Forum
Irish Society of Economic Geologists

Professional organizations:

Geological Society of America
Society of Economic Geologists
Mineralogical Society of America
American Institute of Mining Engineers
Alaska Miner's Association
Northwest Miner's Association
Geological Association of Canada

Special travel:

Field trip to Canadian Sn deposits, Fall 1985
Field trip to Nevada Au deposits, Spring 1987
Field trip to Colorado alkalic Au-Te deposits, fall 1990
Field trip to Irish Zn-Pb deposits, spring 1993
Field trip to Japanese epithermal deposits, fall 1994
Field excursions to ore deposits of NE Russia, summers 1996-98
Field trip to Canadian Cu skarns, spring 1998
NatMap Field conference, summer 2000

University service:

Have chaired committees for >40 M.S. and Ph.D. students
Have been a member of 15 M.S. and 10 Ph.D. committees
Chairman, Field Camp committee
Member, Carbonate petrologist, metamorphic petrologist, microprobe operator and igneous petrologist search committees
Member, College of Environmental Sciences curriculum council, 1983-84
Volunteered lectures for numerous UAF courses, including Geology of Alaska, (graduate and undergraduate), The Dynamic Earth, Geochemistry, Mineralogy, Geotectonics, Field Methods, Advanced Mineralogy, Field Geology and Exploration Methods, seminar on waste disposal
Member, UAF Senate, 1988-89, alternate 1990-91
Unpaid consultant to UA Statewide Division of Lands
Member, CNS curriculum council, 1984-86; 1990-92
Member, UAF tenure and promotion committee, 1990-91
Member, Chancellor's Strategic Planning Committee, 1992-93
Member Usibelli Teaching Award committee, 1992-94; 2004-
Member, UAF Senate, 2001-
Chair, Fisheries Program Review Committee, 2001
Member, UAF Core committee, 2001-2003
Member, UAF Curricular Affairs Committee 2001-03
Chair, UAF Curricular Affairs Committee 2003-

Community/public service:

Reviewer for Economic Geology, Mineralium Depositia, Ak Division Geological & Geophysical Surveys, U.S. Geological Survey, and National Science Foundation
Provide free consulting to numerous economic geology-related companies & individuals
Give classes in and field trips concerning various aspects of geology at local schools
Advise local teachers on mineralogy displays - presentations
Created mineral displays for local mining conventions
Judge at local science fairs
Taught short courses in economic geology for the Alaska Miner's Association and Yukon Miner's Association
Former radio (KUAC) series concerning Geology of Alaska
Provided lectures to Elderhostel and the Denali Institute concerning the geology and geologic history of Interior Alaska
Provided geologic lectures to grey line and Denali bus drivers

PUBLICATIONS

Refereed articles in Books:

- Newberry, R.J., Metasomatic theory and the formation of large scheelite-bearing skarns in the Sierra Nevada area, California, in Zharkov et al., eds., *Advances in Geology of Skarn Deposits*, Theophrastus Publs., 1990, pp. 128-162.
- Newberry, R.J., Burns, L.E., Swanson, S.E., and Smith, T.E., 1990, Comparative petrologic evolution of the Sn and W granites of the Fairbanks-Circle area, Interior Alaska, in *Geol. Soc. Amer. Spec. Paper 246*, pp. 121-142.
- Swanson, S.E., Newberry, R.J., Coulter, G.A., and Dyehouse, T.M., 1990, Mineralogical variation as a guide to the petrogenesis of the tin granites and related skarns, Seward Peninsula, Alaska, in *Geol. Soc. Amer. Spec. Paper 246*, pp. 143-159.
- Newberry, R.J. and Layer, P.W., 1999, Chronology and tectonic settings of Mesozoic and Tertiary Igneous Rocks and associated mineral deposits, Interior Ak and adjacent Yukon, Canada: Gold Mineralization and granitoid magmatism of the Northern Pacific Region, NEISRI, Magadan, Russia, p. 133-66.
- Newberry, R.J., Layer, P.W., Gans, P.B., Goncharov, V.I., Goryachev, NA and Voroshin, SV, 1999, Preliminary revised chronology of Mesozoic magmatism, tectonics, and mineralization in NE Russia based on $^{40}\text{Ar}/^{39}\text{Ar}$ dating and trace element studies of igneous and mineralized rocks: Gold Mineralization and granitoid magmatism of the Northern Pacific Region, NEISRI, Magadan, Russia, p. 166-201.
- Flanigan, B., Freeman, C., Newberry, R., McCoy, D., Hart, C., 2000, Exploration models for mid and late cretaceous Intrusion-related gold deposits in Alaska and the Yukon Territory, Canada, in *Geology and Ore Deposits 2000: The Great Basin and Beyond*, Geological Society of Nevada, pp. 138-157.
- Van Treeck, C.J., Newberry, R.J., and Freeman, C.J., 2003, PGE enriched magnetite of the Union Bay Alaskan-type intrusive complex and its hydrothermal origin, in Eliopoulos, D.G., et al., eds., *Mineral Exploration and sustainable development*, MillPress, Rotterdam, Netherlands, p. 647-651.

Monographs

- Newberry, R.J., 1986, Mineral resources of the northcentral Chugach Mountains, Alaska: Alaska Division of Geological & Geophysical Surveys, Report of Invest. 86-23, 44 p.
- Burns, L.E., Pessel, G.H., Little, T.A., Pavis, T.L., Newberry, R.J., Winkler, G.R., and Decker, John, 1991, Geology of the northern Chugach Mountains, southcentral Alaska: Alaska Division of Geological & Geophysical Surveys, Professional Report 94, 63 p., scale 1:63,360, 2 sheets.
- Burns, L.E., Newberry, R.J., and Gilbert, W.G., 1995, Geology of Plutonic rocks of the Porcupine and Haines-Klukwan areas, SE Alaska: Alaska Div. Geol. Geophys. Surveys, Prof. Report 116a, 78 pp.
- Reifenstuhel, R.R., Dover, J.H., Newberry, R.J., Clautice, K.H., Liss, S.A., Blodgett, R.B., Bundtzen, T.K., Weber, F.R., Pinney, D.S., and Haug, S.A., 1997, Geology of the Tanana B-1 quadrangle, Central Alaska: Alaska Division of Geological and Geophysical Surveys, Report of Investigations 97-15a, 28 p., 1 sheet, scale 1:63,360.
- Reifenstuhel, R.R., Dover, J.H., Newberry, R.J., Clautice, K.H., Pinney, D.S., Liss, S.A., Blodgett, R.B., Bundtzen, T.K., and Weber, F.R., 1998, Geology of the Tanana A-1 and A-2 quadrangles, Central Alaska: Alaska Division of Geological and Geophysical Surveys, Report of Investigations 98-37a, 19 p. 1 sheet, scale 1:63,360.

Clautice, K.H., R.J. Newberry, R.B. Blodgett, T.K. Bundtzen, B.G. Gage, E.E. Harris, S.A. Liss, M.L. Miller, R.R. Reifenstuhel, J.G. Clough, and D.S. Pinney, 2001, Bedrock geologic map of the Chulitna region, southcentral Alaska, Alaska Division of Geological & Geophysical Surveys, RI 2001-1, 31 p., 1 sheet, scale 1:63,360.

Clautice, K.H., R.J. Newberry, D.S. Pinney, R.B. Blodgett, T.K. Bundtzen, B.G. Gage, E.E. Harris, S.A. Liss, M.L. Miller, R.R. Reifenstuhel, and J.G. Clough, 2001, Geologic map of the Chulitna region, southcentral Alaska, Alaska Division of Geological & Geophysical Surveys, RI 2001-1B, 32 p., 1 sheet, scale 1:63,360.

Articles in Refereed Journals and similar periodicals:

Newberry, R.J.J., 1979, Polytypism in Molybdenite I: a non-equilibrium, impurity-induced phenomenon: *American Mineralogist*, v. 64, pp. 758-767.

Newberry, R.J.J., 1979, Polytypism in Molybdenite II: relations between polytypism, ore deposition/alteration stages, and rhenium contents: *American Mineralogist*, v. 64, pp. 768-775.

Newberry, R.J. and Einaudi, M.T., 1981, Tectonic and geochemical setting of tungsten skarn mineralization in the Cordillera, in *Relations of Tectonics to Ore Deposits in the Southern Cordillera*, Arizona Geological Society Digest, vol. 14, pp. 99-112.

Einaudi, M.T., Meinert, L.D., and Newberry, R.J., 1981, Skarn Deposits, *Economic Geology*, 75th Annual Vol., pp. 317-391.

Newberry, R.J., 1982, Tungsten-bearing skarns of the Sierra Nevada I. The Pine Creek Mine, California, *Economic Geology*, vol. 77, pp. 823-844.

Newberry, R.J., 1983, The formation of subcalcic garnet in scheelite-bearing skarns, *Canadian Mineralogist*, vol. 21, pp. 529-544.

Newberry, R.J. and Burns, L.E., 1986, Volcanogenic massive sulfide deposits and the "missing complement" to the calc-alkaline series: an example from the Talkeetna Arc of Alaska, *Economic Geology*, vol. 81, pp. 951-960.

Newberry, R.J., Dillon, J.T., and Adams, D.D., 1986, Regionally metamorphosed calc silicate deposits of the Brooks Range, Northern Alaska, *Economic Geology*, vol. 81, pp. 1728-1752.

Newberry, R.J. and Swanson, S.E., 1986, Scheelite skarn granitoids: an evaluation of the roles of magmatic source and process, *Ore Geology Review*, v. 1, pp. 57-81.

Newberry, R.J. and Brew, D.A., 1986, The Alaska-Juneau gold deposit; remobilized syngenetic vs. exotic epigenetic origin, *U.S. Geol. Survey Circ.* 998, pp. 128-131.

Newberry, R.J. and Brew, D.A., 1987, Alteration zoning and origin of the Alaska-Juneau Gold Deposit, *USGS Circ.* 1016, pp. 174-178.

Newberry, R.J., 1987, Use of intrusive and calc-silicate compositional data to distinguish contrasting skarn types in the Darwin Polymetallic skarn district, California, USA, *Mineralium Depositia*, vol. 22, pp. 207-215.

Swanson, S.E., Bond, J.F., and Newberry, R.J., 1988, Petrogenesis of the Ear Mountain Tin Granite, Seward Peninsula, Alaska, *Economic Geology*, v. 83, pp. 46-61.

Newberry, R.J. and Brew, D.A., 1988, Epigenetic hydrothermal origin of the Groundhog Basin - Glacier Basin Silver-Tin-Lead-Zinc deposits, S.E. Alaska, *USGS Bulletin* 1903, pp. 113-120.

Newberry, R.J., Einaudi, M.T., and Eastman, H.L., 1991, Mineral and metal zoning and a reinterpretation of isotopic zoning at the Darwin Pb-Zn-Ag skarn deposit, California, *Economic Geology*, v. 86, pp. 960-982.

Goldfarb, R.J., Snee, L.W., Miller, L.D. and Newberry, R.J., 1991, Rapid dewatering of the crust deduced from ages of mesothermal gold deposits, *Nature*, v. 354, p. 296-8.

- Goldfarb, R.J., Newberry, R.J., Pickthorn, W.J., and Gent, C.A., 1991, O, H and S isotope studies in the Juneau gold belt, S.E. Alaska: Constraints on the origin of hydrothermal fluids, *Economic Geology*, v. 86, pp. 66-80.
- Kistler, R.W., Newberry, R.J., and Brew, D.A., 1993, Rb-Sr isotopic systematics of vein minerals in the Juneau gold belt, SE Alaska: *U.S. Geol. Survey Bull.* 2068, pp. 236-240.
- Newberry, R.J., McCoy, D. T., and Brew, D.A., 1995, Plutonic-hosted gold ores in Alaska: igneous vs. metamorphic origins: *Mining Geology Japan, Spec Issue v. 28*, pp 57-100.
- Zhao Jinsong and Newberry, R.J., 1996, Novel Knowledge on the origin and mineralization of skarns from Shizhuyuan: *Acta Mineralogica Sinica*, v. 16, p. 442-449 [in Chinese].
- Newberry, R.J., Crafford, T.C., Newkirk, S.R., Young, Lorne E., Nelson, S.W., and Duke, N.A., 1997, Volcanogenic Massive Sulfide Deposits of Alaska, in Goldfarb, R.J. and Miller, L.D., eds., *Mineral Deposits of Alaska: Economic Geology, Monograph 9*, p. 120-150.
- McCoy, D., Newberry, R.J., Layer, P., DiMarchi, J.J., Bakke, A., Masterman, J.S. and Minehane, D.L., 1997, Plutonic related gold deposits of Interior Alaska, in Goldfarb, R.J. and Miller, L.D., eds., *Mineral Deposits of Alaska: Economic Geology, Monograph 9*, p. 191-241.
- Newberry, R.J., Allegro, G.L., Cutler, S.E., Hagen-Levelle, J.H., Adams, D.D., Nicholson, L.C., Weglarz, T.B., Bakke, A.A., Clautice, K.H., Coulter, G.A., Ford, M.J., Myers, G.L., and Szumigala, D.J., 1997, Skarn Deposits of Alaska: in, R.J. Goldfarb and L.D. Miller, eds., *Mineral Deposits of Alaska: Economic Geology, Monograph 9*, p. 355-395.
- Newberry, R.J., Bundtzen, T.K., Mortensen, J.K., and Weber F.R., 1998, Petrology, Geochemistry, Age, and Significance of two Foliated Intrusions in the Fairbanks District, Alaska: in Gray, J.E., and Riehle, J.R., eds., *Geologic studies in Alaska by the U.S. Geological Survey, 1996: U.S. Geological Survey Professional Paper 1595*, p. 117-129.
- Newberry, R.J., Layer, P.W., Solie, D.N., and Burleigh, R.E, 1998, New $^{40}\text{Ar}/^{39}\text{Ar}$ Dates for Intrusions and Mineral Prospects in the Eastern Yukon-Tanana Terrane, Alaska--Regional Patterns and Significance, in Gray, J.E., and Riehle, J.R., eds., *Geologic studies in Alaska by the U.S. Geological Survey, 1996: U.S. Geological Survey Professional Paper 1595*, p. 131-159.
- Newberry, R.J., 1998, W & Sn Skarn Deposits: A 1998 Status Report, in D.R. Lentz, ed., *Mineralized Intrusion-related skarn systems, Mineralogical Assoc. Canada Short Course Notes, Vol. 26*, pp. 289-336.
- Newberry, R.J., and Brew, D.A., 1999, Chemical and isotopic data for rocks and ores from the Greens Creek VMS deposit and VMS prospects on Woewodski Island, SE Alaska: *U.S. Geological Survey, Professional Paper 1614*, p. 35-55.
- Newberry, 2000, Mineral deposits and Associated Mesozoic and Tertiary Igneous Rocks within the Interior Alaska and adjacent Yukon portions of the 'Tintina Gold Belt': a progress report, *The Tintina Gold Belt: Concepts, exploration, and discoveries, Special Vol. 2*, , p. 59-88.
- Thompson, J.F.H. and Newberry, R.J.J., 2000, Low- $f\text{O}_2$ Intrusion-Related Gold Deposits: An important Class of Phanerozoic ores, *Reviews in Economic Geology*, v. 14, p. 12-38.
- Rombach, C.S. & Newberry, R.J., 2001, Shotgun Deposit: Granite Porphyry Hosted Au-As-Cu Mineralization, *Mineralium Deposita*, v 36, p. 607-621.
- Layer, P. W., R. Newberry, K. Fujita, L. Parfenov, V. Trunilina, and A. Bakharev, 2001, Tectonic Setting of the Plutonic Belts of Yakutia, Northeast Russia, based on $^{40}\text{Ar}/^{39}\text{Ar}$ Geochronology and Trace Element Geochemistry, *Geology*, v 29, p. 167-170.
- McCoy, D.T., Newberry, R.J., Marion, P.K., Severin, K.P., Flanigan, B., and Freeman, C., 2002, Paragenesis and metal associations in Interior Alaska gold deposits: an example from the Fairbanks district, *Mining Engineering*, v. 207, p. 33-38.

- Douglas, T.A., Layer, P.W., Newberry, R.J., Keskinen, M.J., 2002, Geochronologic and thermobarometric constraints on the metamorphic history of the Fairbanks Mining District, western Yukon-Tanana terrane, Alaska: *Can. J. Earth Sci.* v. 39, p. 1107-1126.
- Gage, B.G. and Newberry, R.J., 2003, Ore Mineralogy and mineral compositions from Golden Zone Mine, South Central Alaska, *Short Notes on Alaska Geology 2003*, K.H. Clautice and P.K. Davis, eds., Alaska Div. Geological and Geophysical Surveys, Professional Report 120, pp. 21-34.
- Werden, M.B., Layer, P.W., and Newberry, R.J., in press, Dating the undatable using $^{40}\text{Ar}/^{39}\text{Ar}$ laser step-heating: an application in the northern Brooks Range Zn-Pb-Age district, *Economic Geology*.

Geologic Maps

- Burns, L.E., Little, T.A., Newberry, R.J., Decker, J.E., and Pessel, G.H., 1983, Preliminary Geologic Map of the Anchorage C-2, C-3, D-2 and D-3 Quadrangles, Alaska, *Ak. Div. Geol. Gps. Survs., Rpt. of Invst.* 83-10, 3 sheets.
- Little, T.A., Pessel, G.H., Newberry, R.J., Decker, John, Burns, L.E., and Flynn, L.R., 1986, Geologic map of parts of the Anchorage C-4, C-5 and D-4 Quadrangles: Alaska Division of Geological & Geophysical Surveys, Public-data File 86-28, scale 1:25,000, 1 sheet.
- Little, T.A., Pessel, G.H., Newberry, R.J., Decker, J.E., and Burns, L.E., 1988, Geologic Map of the Anchorage C-4 and D-4 Quadrangles, Alaska, ADGGS Report of Investigations, 2 sheets.
- Wiltse, M.A., Reger, R.D., Newberry, R.J., Pessel, G.H., Pinney, D.S., Robinson, M.S., and Solie, D.N., 1995, Geologic map of the Circle mining district, Alaska: Alaska Division of Geological and Geophysical Surveys Report of Investigations 95-2a, 1 sheet, scale 1:63,360.
- Newberry, R.J., Bundtzen, T.K., Clautice, K.H., Combellick, R.A., Douglas, T., Laird, G.M., Liss, S.A., Pinney, D.S., Reifenstuhel, R.R., and Solie, D.N., 1996, Preliminary geologic map of the Fairbanks mining district, Alaska: Alaska Division of Geological & Geophysical Surveys Public-Data File 96-16, 17 p., 2 sheets, scale 1:63,360.
- Reifenstuhel, R.R., Dover, J.H., Newberry, R.J., Clautice, K.H., Pinney, D.S., Liss, S.A., Blodgett, R.B., and Weber, F.R., 1998, Geologic map of the Tanana A-1 and A-2 quadrangles, central Alaska: Alaska Division of Geological & Geophysical Surveys Public-Data File 98-37a, 19 p.
- Clautice, K.H., Newberry, R.J., Pinney, D.S., Blodgett, R.B., Bundtzen, T.K., Gage, B.G., Harris, E.E., Liss, W.A., Miller, M.L., Reifenstuhel, R.R., Clough, J.C., Stone, D.B., and Whalen, M.T., 1999, Preliminary Geologic Map of the Healy A-6 Quadrangle, S-Central Alaska, Alaska Div. Geol. Gps. Survs., Public-Data File 99-24a, 29 pp, 1 sheet, scale 1:63,360
- Werden, M.B., Riehle, J.R., Schmidt, J.M., Newberry, R.J., and Pessel, G.H., 2000, Preliminary geologic map of the Iron Creek area, Talkeetna Mountains B-5 Quadrangle, Alaska: Alaska Division of Geological & Geophysical Surveys Preliminary Interpretive Report 2000-7, 1 sheet, scale 1:63,360.
- Szumigala, D.J., Newberry, R.J., Werden, M.B., Finseth, B.A., and Pinney, D.S., 2000, Preliminary geologic map of a portion of the Fortymile mining district, Alaska 1999: Alaska Division of Geological & Geophysical Surveys Preliminary Interpretive Report 2000-6.
- Werden, M.B., Riehle, J.R., Schmidt, J.M., Newberry, R.J., and Pessel, G.H., 2000, Preliminary geologic map of the Iron Creek area, Talkeetna Mountains B-5 Quadrangle, Alaska:

- Alaska Division of Geological & Geophysical Surveys Preliminary Interpretive Report 2000-7, 1 sheet, scale 1:63,360.
- Werdon, M.B., Newberry, R.J., and Szumigala, D.J., 2001, Geologic map of the Eagle A-2 Quadrangle, Fortymile mining district, Alaska: Alaska Division of Geological & Geophysical Surveys Preliminary Interpretive Report 2001-3a, 1 sheet, scale 1:63,360.
- Werdon, M.B., Newberry, R.J., Szumigala, D.J., and Pinney, D.S., 2001, Bedrock geologic map of the Eagle A-2 Quadrangle, Fortymile mining district, Alaska: Alaska Division of Geological & Geophysical Surveys Preliminary Interpretive Report 2001-3b, 1 sheet, scale 1:63,360.
- Werdon, M.B., Newberry, R.J., Szumigala, D.J., and Burns, L.E., 2001, Reconnaissance bedrock geology of the Pogo area, Big Delta B-2 and B-3 quadrangles, Alaska: Alaska Division of Geological & Geophysical Surveys Preliminary Interpretive Report 2001-5, 1 sheet, 1:63,360 scale.
- Szumigala, D.J., R.J. Newberry, M.B. Werdon, J.E. Athey, D.S.P. Stevens, R.L. Flynn, K.H. Clautice, and P.A. Craw, 2002, Geologic map of the Eagle A-1 Quadrangle, Fortymile mining district: Alaska Division of Geological & Geophysical Surveys, PIR 2002-1, 1 sheet, scale 1:63,360.
- Flynn, R.L. and Newberry, R.J., 2001, Geology of the Boundary area, Eagle A-1 Quadrangle, east-central Alaska: U.S. Geological Survey EDMAP program, under assistance Award No. 00HQAG0061: 1 sheet, 1:25,000 scale.
- Szumigala, D.J., R.J. Newberry, M.B. Werdon, J.E. Athey, R.L. Flynn, and K.H. Clautice, 2002, Bedrock geologic map of the Eagle A-1 Quadrangle, Fortymile mining district, Alaska Division of Geological & Geophysical Surveys, PIR 2002-1b 1 sheet, scale 1:63,360.
- Werdon, M.B., Newberry, R.J., Athey, J.E., et al., 2003, Geologic Map of the Big Delta C-3, SW ¼ of the C-2, and NE ¼ of the B-3 Quadrangles, Alaska, Alaska Division of Geological & Geophysical Surveys, PIR 2003-1, 1 sheet, scale 1:63,360.
- Athey, J.E., Werdon, M.B., Newberry, R.J., Szumigala, D.J., Craw, P.A., Hicks, S.A., 2004, Geologic map of the Livengood SW C-3 and SE C-4 quadrangles, Tolovana mining district, Alaska, 1 sheet.
- Athey, J.E., Szumigala, D.J., Newberry, R.J., Werdon, M.B., Hicks, S.A., 2004, Bedrock geologic map of the Livengood SW C-3 and SE C-4 quadrangles, Tolovana mining district, Alaska, 1 sheet.
- Werdon, M.B., Newberry, R.J., Athey, J.E., Szumigala, D.J., 2004, Bedrock geologic map of the Salcha River-Pogo area, Big Delta Quadrangle, Alaska, 19 p., 1 sheet.

Reports [partial listing]:

- Morris, M.C., McMurdie, H.F., Evans, E.H., Paretzkin, B., deGroot, J.H., Newberry, R.J., Hubbard, C.R., and Carmel, S.J., 1977, Standard X-ray Diffraction Powder Patterns, National Bureau of Standards, Monograph 25, Section 14, 138 pp.
- Meinert, L.D., Newberry, R.J., and Einaudi, M.T., 1981, General characteristics of W., Cu, and Zn-bearing skarns in Western North America, in Mineral Deposits of the Pacific Northwest, Field, C., and Silberman, M. (eds.), U.S. Geological Survey Open File Report 81-355, pp. 303-327.
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