

Larry J. Garside

Professional Summary

PERSONAL

Business address: Nevada Bureau of Mines and Geology
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University of Nevada, Reno
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EDUCATION

B.S., Geology, Iowa State University, 1965
M.S., Geology, University of Nevada, Reno, 1968

AREAS OF EXPERTISE

- A. Geologic mapping, especially at scales of 1:24,000–1:100,000
- B. Volcanic geology, especially western Nevada Mesozoic and Tertiary
- C. Energy resources geology (uranium, petroleum, geothermal, coal, oil shale)
- D. Geology and trace-element geochemistry of metallic ore deposits
- E. Volcanism and hydrothermal mineralization
- F. Isotopic dating of igneous rocks and mineralization

PROFESSIONAL WORK EXPERIENCE

- A. Research Geologist Emeritus, Nevada Bureau of Mines and Geology,
University of Nevada, Reno
(2009-present)

- Research Geologist (Rank IV), Nevada Bureau of Mines and Geology,
University of Nevada, Reno
(1983–2009)

- Acting Associate Director, Nevada Bureau of Mines and Geology,
University of Nevada, Reno, Mackay School of Mines
(1987–1988)

- Chief Geologist, Nevada Bureau of Mines and Geology,
University of Nevada, Reno, Mackay School of Mines
(1986–1987)

- Deputy Director for Research, Nevada Bureau of Mines and Geology,
University of Nevada, Reno, Mackay School of Mines
(1985–1986)

Economic Geologist, Rank III, Nevada Bureau of Mines and Geology,
University of Nevada, Reno, Mackay School of Mines
(1976–1983)

Economic Geologist, Rank II, Nevada Bureau of Mines and Geology,
University of Nevada, Reno, Mackay School of Mines
(1971–1976)

Economic Geologist, Rank I, Nevada Bureau of Mines and Geology,
University of Nevada, Reno, Mackay School of Mines
(1968–1971)

Research Assistant, Nevada Bureau of mines and Geology,
University of Nevada, Reno, Mackay School of Mines
(1965–1968)

- B. Laboratory Assistant, Iowa State University (summer)
(1965)

National Science Foundation grant for undergraduate research (summer 1964)

PROFESSIONAL SOCIETIES

American Association of Petroleum Geologists (Active Member, member Energy Resources Division)
Geological Society of America (Fellow)
Society of Economic Geologists (Fellow)
Association of Exploration Geochemists (Associate Member)
Geothermal Resources Council (Charter Member)
Geological Society of Nevada
Nevada Petroleum Society

HONOR SOCIETIES

Phi Kappa Phi
Listed in the Twenty-third Edition of Marquis Who's Who in the West
Listed in the Seventeenth Edition (1989–90) of American Men and Women of Science

PUBLICATIONS

Peer-Reviewed Reports Published by Geological Surveys

- Hudson, D. M., Castor, S. B., Garside, L.J., Henry, C. D., 2008, Geologic Map of the Virginia City Quadrangle, Nevada: Nevada Bureau of Mines and Geology Map 163, 1:24,000
Garside, L. J., and Hess, R. H., 2007, Petroleum data map of Nevada: Nevada Bureau of Mines and Geology Map 162, scale 1:1,000,000.
Garside, L.J., and Bonham, H.F., 2006, Geologic map of the Olinghouse Quadrangle, Nevada: Nevada Bureau of Mines and Geology Map 157.
Price, J.G., Hess, R.H., Fitch, S., Faulds, J.E., Garside, L.J., Shevenell, L., and Warren, S., 2005, Preliminary assessment of the potential for carbon dioxide disposal by sequestration in geological settings in Nevada: Nevada Bureau of Mines and Geology Report 51, 35 p.

- Shevenell, L., and Garside, L.J., 2005 [second ed.], Nevada Geothermal Resources: Nevada Bureau of Mines and Geology Map 141, scale 1:750,000.
- Tingley, J.V., Pizarro, K.A., Ross, C., Purkey, B.W., and Garside, L.J., 2005, Geologic and natural history tours in the Reno area, Expanded Edition: Nevada Bureau of Mines and Geology Special Publication 19, 181 p.
- Bell, J.W., Garside, L.J., and House, P.K., 2005, Geologic map of the Wadsworth Quadrangle, Nevada: Nevada Bureau of Mines and Geology Map 153, 1:24,000.
- Shevenell, L., L. and Garside, L.J., R.2003, Nevada geothermal resources. Nevada Bureau of Mines and Geology, Map 141, 1:750,000.
- Shevenell, L., Garside, L.J., and Hess, R.H., 2000, Nevada Geothermal Resources: Nevada Bureau of Mines and Geology Map 126, scale 1:1,000,000.
- Garside, L.J., 1998, Mesozoic metavolcanic and metasedimentary rocks of the Reno-Carson City area, Nevada and adjacent California: Nevada Bureau of Mines and Geology Report 49, 30 p.
- Purkey, B.W., and Garside, L.J., 1995, Geologic and natural history tours in the Reno area: Nevada Bureau of Mines and Geology Special Publication 19, 211 p.
- Hess, R.H., and Garside, L.J., 1994, Geothermal energy, *in* The Nevada Mineral Industry, 1993: Nevada Bureau of Mines and Geology Special Publication MI-1993, p. 49–56.
- Garside, L.J., 1993, Geologic map of the Bedell Flat Quadrangle, Nevada: Nevada Bureau of Mines and Geology Field Studies Map FS-3.
- Hess, R.H., and Garside, L.J., 1990, Geothermal energy, *in* The Nevada Mineral Industry, 1989: Nevada Bureau of Mines and Geology Special Publication MI-1989, p. 51–55.
- Hess, R.H., and Garside, L.J., 1989, Geothermal energy, *in* The Nevada Mineral Industry, 1988: Nevada Bureau of Mines and Geology Special Publication MI-1988, p. 53–58.
- Garside, L.J., Hess, R.H., Fleming, K.L., and Weimer, B.S., 1988, Oil and gas developments in Nevada: Nevada Bureau of Mines and Geology Bulletin 104, 136 p.
- Bell, J.W., and Garside, L.J., 1987, Geologic map of the Verdi Quadrangle, Nevada: Nevada Bureau of Mines and Geology Map 4Gg.
- Garside, L.J., 1986, Geochemical reconnaissance of the Camp Douglas and Moho Mountain Quadrangles, Nevada: Nevada Bureau of Mines and Geology Report 42, 21 p.
- Bonham, H.F., Jr. and Garside, L.J., 1982, Geochemical reconnaissance of the Tonopah, Lone Mountain, and northern Mud Lake Quadrangles, Nevada: Nevada Bureau of Mines and Geology Bulletin 96, 68 p.
- Garside, L.J., 1982, Geologic map of the Moho Mountain Quadrangle, Nevada: Nevada Bureau of Mines and Geology Map 74.
- Garside, L.J., 1979, Geologic map of the Camp Douglas Quadrangle, Nevada Bureau of Mines and Geology Map 63.
- Garside, L.J., and Schilling, J.H., 1979, Thermal waters of Nevada: Nevada Bureau of Mines and Geology Bulletin 91, 163 p.
- Bonham, H.F., Jr., and Garside, L.J., 1979, Geology of the Tonopah, Lone Mountain, Klondyke, and northern Mud Lake Quadrangles, Nevada: Nevada Bureau of Mines and Geology Bulletin 92, 142 p.
- Silberman, M.L., Bonham, H.F., Jr., Garside, L.J., Ashley, R.P., 1979, Timing of hydrothermal alteration—mineralization and igneous activity in the Tonopah mining district and vicinity, Nye and Esmeralda Counties, Nevada, *in* Ridge, J.D., ed., Papers on mineral deposits of western North America: Nevada Bureau of Mines and Geology Report 33, p. 119–126.
- Garside, L.J., 1978, Geothermal data, Las Vegas SE Quadrangle, *in* Papke, K.G., and Bell, J.W., Energy and mineral resources map of the Las Vegas SE Quadrangle: Nevada Bureau of Mines and Geology Map 3Ah.
- Garside, L.J., and Schilling, J.H., 1977, Wells drilled for oil and gas in Nevada through 1976: Nevada Bureau of Mines and Geology Map 56.
- Garside, L.J., Weimer, B.S., and Lutsey, I.A., 1977, Oil and gas developments in Nevada 1968–1976: Nevada Bureau of Mines and Geology Report 29, 32 p.
- Garside, L.J., 1976, Geothermal resources, Reno quadrangle: Nevada Bureau of Mines and Geology Environmental Folio, Reno Quadrangle, p. 35–36.
- Garside, L.J., 1974, Geothermal exploration and development in Nevada through 1973: Nevada Bureau of Mines Report 21, 12 p.
- Garside, L.J., 1973, Radioactive mineral occurrences in Nevada: Nevada Bureau of Mines Bulletin 81, 116 p.

- Schilling, J.H., and Garside, L.J., 1968, Oil and gas developments in Nevada, 1953–1967: Nevada Bureau of Mines Report 18, 43 p.
- Garside, L.J., and Schilling, J.H., 1967, Wells drilled for oil and gas in Nevada: Nevada Bureau of Mines Map 34.

Articles in Refereed Journals

- Shevenell, L., Garside, L., Aerhart, G., van Soest, M., and Kennedy, M., 2002, Geochemical sampling of thermal and nonthermal waters in Nevada to evaluate the potential for resource utilization: Geothermal Resources Council Transactions, v. 26.
- Garside, L.J., Shevenell, L.A., Snow, J.H., and Hess, R. H., G.L., 2002, Status of Nevada geothermal resource development—Spring 2002: Geothermal Resources Council Transactions, v. 26. *Accepted for publication.*
- Faulds, J.E., Garside, L.J., Johnson, G.L., Muehlberg, J., Oppliger, G.L., 2002, Geologic setting and preliminary analysis of the Desert Peak–Brady Geothermal Field, western Nevada: Geothermal Resources Council Transactions, v. 26.
- Price, J.G., Henry, C.D., Castor, S.B., Garside, L.J., and Faulds, J.E., 1999, Geology of Nevada: Rocks and Minerals, v. 74, no. 6, p. 357–363.
- Hsu, L.C., Bonham, H.F., Jr., Price, J.G., Garside, L.G., Desilets, M.O., and Lechler, P.J., 1995, Geochemical characteristics of the Paleozoic sedimentary rocks in the Winnemucca 30' x 60' quadrangle, Nevada—Background values for gold exploration: Exploration and Mining Geology, v. 4, no. 3, p. 227–242.
- Garside, L.J., 1983, Nevada oil shale, *in* Knutson, C.F. and Dana, G.F., Development in oil shale in 1982, Nevada: American Association of Petroleum Geologists Bulletin 67, p. 2011–2012.
- Garside, L.J., and Schilling, J.H., 1972, Geothermal exploration and development in Nevada: Overviews of States, Geothermal Resources Council, El Centro, CA; also *in* Meadows, K.F., ed., 1972, Geothermal World Directory, p. 146–151.
- Johnson, G.D., Garside, L.J., and Warner, A.J., 1967, A study of structure and associated features of Sheep Mountain Anticline, Big Horn County, Wyoming: Iowa Academy of Science, v. 72, p. 332–342.

Symposium Volumes and Guidebooks

- Faulds, J.E., Henry, C.D., Coolbaugh, M.F., Garside, L.J., and Castor, S.B., 2005, Late Cenozoic strain field and tectonic setting of the northwestern Great Basin, western USA: Implications for geothermal activity and mineralization, *in* Rhoden, H.N., et al., eds., Window to the World, Geological Society of Nevada Symposium Proceedings, May 14–18, 2005, p. 1091–1104.
- Coolbaugh, M.F., Arehart, G.B., Faulds, J.E., and Garside, L.J., 2005, Geothermal systems in the Great Basin, western United States: Modern analogues to the roles of magmatism, structure, and regional tectonics in the formation of gold deposits, *in* Rhoden, H.N., et al., eds., Window to the World, Geological Society of Nevada Symposium Proceedings, May 14–18, 2005, p. 1063–1082.
- Coolbaugh, M.F., Arehart, G.B., Faulds, J.E., and Garside, L.J., 2005, Geothermal activity in the Great Basin: modern analogues to the roles of magmatism, structure, and regional tectonics in the formation of mineral deposits, *in* Rhoden, H.N., et al., eds., Window to the World, Geological Society of Nevada Symposium Proceedings, May 14–18, 2005.
- Faulds, J.E., Henry, C.D., Coolbaugh, M.F., Garside, L.J., and Castor, S.B., 2005, Cenozoic evolution of the northern Walker Lane: Implications for geothermal activity and mineralization in western Nevada, *in* Rhoden, H.N., et al., eds., Window to the World, Geological Society of Nevada Symposium Proceedings, May 14–18, 2005.
- Garside, L.J., Henry, C.D., Faulds, J.E., and Hinz, N.H., 2005, The upper reaches of the Sierra Nevada gold channels, *in* Rhoden, H.N., et al., eds., Window to the World, Geological Society of Nevada Symposium Proceedings, May 14–18, 2005.
- Castor, S.B., Garside, L.J., Henry, C.D., Hudson, D.M., and McIntosh, W.C., 2005, Epithermal mineralization and intermediate volcanism in the Virginia City area, Nevada, *in* Rhoden, H.N., et al., eds., Window to the World, Geological Society of Nevada Symposium Proceedings, May 14–18, 2005.
- Faulds, J.L., Garside, L.J., and Oppliger, G.L., 2003, Stratigraphic and structural framework of the northern Hot Springs Mountains, Desert Peak and Brady Geothermal Fields, northwestern Nevada, *in* Foster, S., ed., Oil, gas, and geothermal occurrences in northwestern Nevada: Nevada Petroleum Society 2003 Field Trip guidebook, p. 31–38.

- Garside, L.J., Castor, S.B., Henry, C.D., and Faulds, J.E., eds., 2000, Structure, volcanic stratigraphy, and ore deposits of the Pah Rah Range, Washoe County, Nevada: Geological Society of Nevada Symposium 2000 Field Trip Guidebook No. 2, 132 p.
- Castor, S.B., and Garside, L.J., 2000, GSN road log 1, Interstate 80 eastbound, Reno to Fernley: Geological Society of Nevada Guidebooks for field trips 3, 4, 5, 6, 7, 8, and 9 (Geology and Ore Deposits 2000 Symposium), 9 p.
- John, D.A., Garside, L.J., and Wallace, A.R., 1999, Magmatic and tectonic setting of late Cenozoic gold-silver deposits in northern Nevada, with an emphasis on the Pah Rah and Virginia Ranges and the Northern Nevada Rift, *in* Kizis, J.A., ed., Low-sulfidation gold deposits of northern Nevada, Geological Society of Nevada 1999 Spring Field Trip guidebook: Geological Society of Nevada Special Publication no. 29, p. 65–158.
- Garside, L.J., 1994, Nevada low-temperature geothermal resources use—successes and failures: Geothermal Resources Council Transactions, v. 18, p. 85–86. Presented at the 1994 Annual Meeting of the Geothermal Resources Council, "Restructuring the Geothermal Industry," Salt Lake City, Utah.
- Garside, L.J., and Bonham, H.F., Jr., 1992, Olinghouse Mining District, Washoe County, Nevada, *in* Craig, S., ed., Walker Lane Symposium, 1992 spring field trip #2 guidebook, Reno area—northern Walker Lane mineralization and structure: Geological Society of Nevada Special Publication no. 15, p. 48–62 (also in Craig, S.D., ed., Structure, tectonics, and mineralization of the Walker Lane: Geological Society of Nevada, Walker Lane Symposium, Proceedings Volume, p. 227–238).
- Doebrich, J.L., Garside, L.J., and Shaw, D.R., 1992, Metallogenic evolution of mineral deposits in Triassic to Jurassic magmatic arc rocks in and near the northern Walker Lane, western Nevada and eastern California, *in* Craig, S.D., ed., Structure, tectonics, and mineralization of the Walker Lane: Geological Society of Nevada, Walker Lane Symposium, Proceedings Volume, p. 155–160.
- Craig, S.D., Young, T.H., Cluer, J.K., Bonham, H.F., Garside, L.J., and Fuchs, W.A., 1992, Road log from Reno to Loyalton and Reno to Pyramid, *in* Craig, Steve, ed., Walker Lane Symposium, 1992 spring field trip #2 guidebook, Reno area—northern Walker Lane mineralization and structure: Geological Society of Nevada Special Publication no. 15, p. 7–20.
- Lugaski, T., Garside, L.J., and Bonham, H.F., Jr., 1989, The use of remote sensing to delineate gold and other precious-metals in Nevada: Proceedings of The International Symposium on Gold Geology and Exploration, Shenyong, China.

Other Articles, Reports, Books, and Maps

- Garside, L.J., Fred L. Nials, F.L., and Ramelli, A.R., 2010, Preliminary geologic map of the Griffith Canyon Quadrangle, Washoe County, Nevada, 1:24,000 [supersedes OF99-4].
- Garside, L.J., House, P.K., Burchfiel, B.C., and Rowland, S.M., 2009, Preliminary geologic map of the Jean Quadrangle, Nevada: Nevada Bureau of Mines and Geology Open-File Report 09-5.
- Price, J. G., Coolbaugh, M. F., David, D. D., Garside, L., Hastings, J. T., Henry, C. D., Hess, R. H., Hursh, J. P., Lapointe, D. D., Muntean, J. L., Shevenell, L. A., Zehner, R. E., 2008, Mineral and energy resources and potential in Mineral, Esmeralda, Lyon, and Douglas Counties, Nevada", Nevada Bureau of Mines and Geology Open-File Report 08-2.
- Coolbaugh, M., Arehart, G., Faulds, J., Garside, L., and Shevenell, L., 2005, Active geothermal systems and associated gold deposits in the Great Basin: Geothermal Resources Council Transactions, v. 29, p. 215–221.
- Faulds, J.E., Henry, C.D., Coolbaugh, M.F., and Garside, L.J., 2005, Influence of the late Cenozoic strain field and tectonic setting on geothermal activity and mineralization in the northwestern Great Basin: Geothermal Resources Council Transactions, v. 29, p. 353-358.
- Shevenell, L., Coolbaugh, M., Faulds, J., Opplinger, G., Calvin, W., Louie, J., Blewitt, J., Kratt, C., Arehart, G., Sladek, C., Lechler, P., and Garside, L., 2004, Accomplishments at the Great Basin Center for Geothermal Energy: Geothermal Resources Council Transactions, v. 28.
- Ramelli, A.R., Yount, J.C., John, D.A., and Garside, L.J., 2003, Preliminary geologic map of the Minden Quadrangle, Nevada [2d ed., 2009]: Nevada Bureau of Mines and Geology Open File Report 03-13, 1:24,000.
- Faulds, J.E., Garside, L.J., and Oppliger, G.L., 2003, Stratigraphic and structural framework of the northern Hot Springs Mountains, Desert Peak and Brady geothermal fields, northwestern Nevada, *in* Foster, S., ed., Oil, gas, and geothermal occurrences in northwestern Nevada: Nevada Petroleum Society 2003 Field Trip Guidebook, p. 31–38.
- Faulds, J.E., Garside, L.J., and Oppliger, G.L., 2003, Structural analysis of the Desert Peak-Brady geothermal fields, northwestern Nevada: Implications for understanding linkages between northeast-trending structures and

- geothermal reservoirs in the Humboldt structural zone: *Geothermal Resources Council Transactions*, v. 27, p. 859–864.
- Faulds, J.L., Garside, L.J., and Oppliger, G.L., 2003, Structural analysis of the Desert Peak-Brady Geothermal Field, northwestern Nevada: implications for understanding linkages between northeast-trending structures and geothermal reservoirs in the Humboldt Structural Zone: *Geothermal Resources Council Transactions*, v. 27, p. 859–864.
- Shevenell, L. and L., 2003, Geochemical sampling of thermal waters in Nevada: *Geothermal Resources Council Transactions*, v. 27, p. 27–32.
- Faulds, J.L., and Garside, L.J., 2003, Preliminary geologic map of the Desert Peak and Brady Geothermal Fields, Churchill County: Nevada Bureau of Mines and Geology Open-File Report 03-27.
- Benoit, Dick, and Garside, Larry, 1999, Nevada geothermal energy—past, present, and future: *Geothermal Resources Council Bulletin*, v. 28, no.7, p. 211–215.
- Castor, S.B., Garside, L.J., and dePolo, C.M., 1999, Geologic map of the west half of the Moses Rock Quadrangle, Nevada: Nevada Bureau of Mines and Geology Open-File Report 99-11, 1:24,000.
- Castor, S.B., Garside, L.J., Tingley, J.V., LaPointe, D.D., Desilets, M.O., Hsu, Liang-Chi, Goldstrand, P.M., Lugaski, T.P., and Ross, Howard P., 1999, Assessment of metallic and mined energy resources in the Yucca Mountain Conceptual Controlled Area, Nye County, Nevada: Nevada Bureau of Mines and Geology Open-File Report 99-13, 204 p., 10 plates.
- Garside, L.J., Castor, S.B., dePolo, C.M., and Davis, D.D., 1999, Geologic map of the Fraser Flat Quadrangle, Nevada: Nevada Bureau of Mines and Geology Open-File Report 99-10, 1:24,000.
- Tingley, J.V., and Garside, L.J., 1999, Mineral report Pah Rah Plan Amendment Area, Washoe County, Nevada: Nevada Bureau of Mines and Geology Open-File Report 99-12, 99 p.
- Garside, L.J., and Rigby, J.G., 1998, Geologic map of the McTarnahan Hill Quadrangle, Nevada [2d ed., 2009]: Nevada Bureau of Mines and Geology Open-File Report 99-5, 1:24,000.
- Tingley, J.V., Castor, S.B., Garside, L.J., and LaPointe, D.D., 1998, Mineral and energy resource assessment of the Carson City Urban Interface Area: Nevada Bureau of Mines and Geology Open-File Report 98-5.
- Garside, L.J. and Nials, F.L., 1997, Geologic map of the Griffith Canyon Quadrangle, Nevada: Nevada Bureau of Mines and Geology Open-File Report 99-4, 1:24,000.
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- Garside, L.J., 1996, Nevada geothermal gradient-hole database, in U.S. Department of Energy, Federal geothermal research program update, fiscal year 1995: U.S. Department of Energy, Assistant Secretary for Energy Efficiency and Renewable Energy, Geothermal Division, p. 2-59 to 2-61.
- Doeblich, J.L., Garside, L.J., and Shawe, D.R., 1996, Characterization of mineral deposits in rocks of the Triassic to Jurassic magmatic arc of western Nevada and eastern California: U.S. Department of the Interior U.S. Geological Survey Open-File Report 96-9.
- Garside, L.J., 1994, Nevada low-temperature geothermal resource assessment: *with a bibliography* by D.A. Davis and L.J. Garside: Nevada Bureau of Mines and Geology Open-File Report 94-2, 108 p.
- Garside, L.J., and Hess, R.H., 1994, Nevada geothermal resource use 1993 update: *Geothermal Resources Council Bulletin*, v. 23, no. 2, p. 47–54. *Also published in Geo-Heat Center Quarterly Bulletin* (Oregon Institute of Technology, Klamath Falls), v. 15, no. 4, p. 1–8.
- Bryan, D.P., Castor, S.B., and Garside, L.J., 1994, Aggregate resource study of southern Washoe County, Nevada: Nevada Bureau of Mines and Geology Open File Report 94-3, 104 p.
- Garside, L.J., 1993, NBMG geologic quadrangle mapping program progress report: *Geological Society of Nevada Newsletter*, March 1993, 2 p.
- Garside, L.J., 1993, NBMG geologic quadrangle mapping program 1993 update: *Geological Society of Nevada Newsletter*, August 1993, 2 p.
- Garside, L.J., 1993, Low-temperature geothermal resources in Nevada: *Nevada Geology*. v. 19 (Summer 1993).
- Garside, L.J., and Bonham, H.F., Jr., Tingley, J.V., and McKee, E.H., 1993, Potassium-argon ages of igneous rocks and alteration minerals associated with mineral deposits, western and southern Nevada and eastern California: *Isocron/West*, no. 59, p. 17–23.

- Tingley, J.V., Castor, S.B., Garside, L.J., Bonham, H.F., Jr., Lugaski, T.P., and Lechler, P.J., 1993, Energy and mineral resource assessment of the Desert National Wildlife Range, eastern section, Clark and Lincoln Counties, Nevada: Nevada Bureau of Mines and Geology Open-File Report 93-2, 111 p., 4 appendices.
- Garside, L.J., and Davis, D., 1992, A mineral inventory of the Nevada portion of the Cedarville Resource area, Susanville Bureau of Land Management District, Nevada: Nevada Bureau of Mines and Geology Open-File Report 92-1, 162 p.
- Craig, S.D., Margolis, J., Garside, L.J., and Carpenter, A., 1992, Road log from Reno to Washington Hill, Olinghouse, and Talapoosa, *in* Craig, S., ed., Walker Lane Symposium, 1992 spring field trip #2 guidebook, Reno area—northern Walker Lane mineralization and structure: Geological Society of Nevada Special Publication no. 15, p. 20–31.
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- Garside, L.J., 1991, Planning for future geologic mapping in Nevada: *Nevada Geology*, no. 13, p. 1, 4.
- Garside, L.J., 1991, Quartz-tourmaline veins in the northern Sierra Nevada area: *Nevada Geology*, no. 11, p. 1–2.
- Sillitoe, R.H., and Camus, F. (leaders), assisted by: Sarnic, N., Bonham, H.F., Jr., and Garside, L.J., 1991, Gold/silver deposits of Chile: Itinerary and guidebook for a field conference sponsored by the Association of Exploration Geochemists and the Society of Economic Geologists, April 13–24, 1991.
- Garside, L.J., McKee, E.H., and Bonham, H.F., Jr., 1990, Potassium-argon ages of plutonic rocks and associated vein and alteration minerals, northeast Sierra Nevada, California and Nevada: *Isochron/West*.
- Quade, Jack, Tingley, J.V., and Garside, L.J., 1990, Appendix A—mines, prospects, and occurrences, Mineral resource inventory, Bureau of Land Management, Carson District, Nevada: Nevada Bureau of Mines and Geology Open-File Report 90-2, 796 p.
- Quade, Jack, Tingley, J.V., and Garside, L.J., 1990, Appendix B—sample descriptions; Appendix C—sample analyses, Mineral resource inventory, Bureau of Land Management, Carson District, Nevada: Nevada Bureau of Mines and Geology Open-File Report 90-3, 227 p.
- Flanigan, D.M.H., Garside, L.J., and Hansen, M., eds., 1990, Oil fields and geology of the Pine Valley, Eureka County area, Nevada: Nevada Petroleum Society, Reno, 74 p.
- Carillo, F.V., and Garside, L.J., 1989, The mineral industry of Nevada, *in* *Minerals Yearbook-1987: U.S. Bureau of Mines* (preprint).
- Garside, L.J., and Shaddrick, D.P., eds., 1989, Compressional and extensional structural styles in the northern Basin and Range: Nevada Petroleum Society, Reno, 42 p.
- Garside, L.J., 1989, USGS/NBMG cooperative geologic mapping in Nevada—the COGEMAP Program: Nevada Geology, Nevada Bureau of Mines and Geology Quarterly Newsletter, no. 5, p. 2.
- Garside, L.J., Bonham, H.F., Jr., and Lugaski, T.P., 1988, Summary report on the gold mines visited in the Guangxi Zhuang Autonomous Region, China: Report to the China Nonferrous Metals Corporation (CNCC), Guangxi Zhuang Scientific and Technical Commission, and the United Nations Development Program.
- Garside, L.J., 1988, Petroleum exploration and production in Nevada: Nevada Geology [NBMG newsletter], no. 1, p. 1.
- Garside, L.J., 1988, Introduction, *in* *The Nevada mineral industry-1987: Nevada Bureau of Mines and Geology Special Publication MI-1987*, p. 1.
- Fleming, K.L., and Garside, L.J., 1988, Geothermal energy, *in* *The Nevada mineral industry, 1987: Nevada Bureau of Mines and Geology Special Publication MI-1987*, p. 37–40.
- Garside, L.J., 1987, Reconnaissance geologic map of the Granite Peak Quadrangle, Nevada: Nevada Bureau of Mines and Geology Open-File Report 87-8.
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- Garside, L.J., and Bonham, H.F., Jr., 1987, Road log/trip guide: Eldorado district, Colosseum deposit, Sterling Mine (Bare Mountain district), Montgomery-Shoshone deposit (Bullfrog district), Goldfield district, Tonopah district, Manhattan district, Round Mountain Mine: Geological Society of Nevada, Field Trip Volume, Symposium on bulk minable precious metals deposits of the Western United States p. 65–119.
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- Garside, L.J., 1989, The Peavine sequence—record of a Jurassic magmatic arc in western Nevada: Geological Society of America Abstracts with Programs, v. 21, no. 5, p. 82.

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ftp://comstock.nbmgs.unr.edu/pub/dix/paleochannel/Lead_web_page.htm
- Shevenell, L., and Garside, L., 2003 [Revised 2005]. Nevada Geothermal Resources: Nevada Bureau of Mines and Geology web site (<http://www.nbmgs.unr.edu/geothermal/gthome.htm>) and CD-ROM containing interactive maps, site descriptions, detailed maps, photos, bibliography, and databases.
- Hess, R.H., Fleming, K.L., Garside, L.J., and Lohn, H.L., 1987, NVOILWEL—A computer database of Nevada oil and gas data.

Contract Reports and Unpublished Reports

- Castor, S.B., and Garside, L.J., 2000, Geochemical anomalies at Yucca Mountain and implications for metallic mineral potential: TRW Environmental Safety Systems, Inc., Report TDR-NBS-GS-000001, REV 00, 113 p. (61 p plus 52 p. in 3 appendices).
- Tingley, J.V., Garside, L.J., Castor, S.B., and LaPointe, D.D., 1999, Mineral assessment of the Washoe County Open Space Plan Amendment Area, Washoe County, Nevada: Nevada Bureau of Mines and Geology Open-File Report 99-2.
- Tingley, J.V., Castor, S.B., Weiss, S.I., Garside, L.J., Price, J.G., LaPointe, D.D., Bonham, H.F. Jr., and Lugaski, T.P., 1997, Mineral and energy resource assessment of the Nellis Air Force Range, Clark, Lincoln, and Nye Counties, Nevada: Final Report to U.S. Air Force Air Combat Command, Nellis Air Force Base, Nevada and U.S. Army Corps of Engineers Fort Worth District Planning Division, Fort Worth, Texas, 2 vols., 416 p. + appendices (353 p.).
- Castor, S.B., Garside, L.J., Tingley, J.V., LaPointe, D.D., Desilets, M.O., Hsu, L.C., Goldstrand, P.M., Lugaski, T.P., and Ross, H.P., 1997, Assessment of metallic energy resources in the Yucca Mountain Controlled Area, Nye County, Nevada: Draft Report prepared for the Civilian Radioactive Waste Management System Management and Operating Contractor, Las Vegas, Nevada, 204 p. +appendices (264 p.) + 10 plates.
- Garside, L.J., 1997, Nevada geothermal gradient-hole database, 35 p and CD-ROM with database containing over 2600 records. Report for the Idaho National Engineering Laboratory, Lockheed Idaho Technologies Co.
- Flynn, T., Shevenell, L., Trexler, D.T., Buchannan, P.K., and Garside, L.J., 1995, Bibliography of journals, maps, technical reports, and related information pertinent to the Yucca Mountain Site Characterization Program: Assessment of geothermal resources: Contract report for the U.S. Department of Energy, Yucca Mountain Site Characterization Office, 51 p.
- Flynn, T., Shevenell, L., Buchannan, P.K., Garside, L.J., and Trexler, D.T., 1995, Geothermal resource assessment of the Yucca Mountain area, Nye County, Nevada, Final report: Contract report (under contract DE FC08-90NV10872) for the U.S. Department of Energy, Yucca Mountain Site Characterization Office, 61 p., appendix, figures, and plates.
- Garside, L.J., and Lechler, P.J., 1995, Guidebook for field trip to Virginia City and Fort Churchill: Association of American State Geologists annual meeting, Reno, June 11–15, 1995.
- Bryan, D.P., Castor, S.B., and Garside, L.J., 1992, Sand, gravel, decomposed granite, and crushed stone resources of the southern portion of Washoe County, Nevada: Contract Report to Sergeant, Hauskins and Beckwith, Consulting Geotechnical Engineers, for Washoe County, Nevada, 36 p., four - 1:100,000-scale maps.
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- Bonham, H.F., Jr., Desilets, M., Garside, L.J., and Hsu, L.C., 1991, Project Report, Preble Formation, Geochemical Sampling and Characterization Program: 153 p.
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- Bonham, H.F., Jr., Desilets, M., Garside, L.J., and Hsu, L.C., 1991, Project Report, Paleozoic rocks in the Winnemucca 30x60 minute quadrangle, Geochemical Sampling and Characterization Program.
- Garside, L.J., and Bell, J.W., Progress report for COGEMAP Contract 14-08-0001-A0654: Geologic studies conducted in the Olinghouse, Wadsworth, and Minden quadrangles, Nevada during the period June 1, 1989 to May 31, 1990.
- Tingley, J.V., and Smith, P.L., 1982, A mineral inventory of the Eureka-Shoshone resource area, Battle Mountain district, Nevada: Final report for contract No. Y-553-CTI-1058, U.S. Department of the Interior (BLM). Assisted by J.L. Bentz, L.J. Garside, J. Quade, and R.B. Jones.

Garside, L.J., 1982, Uranium resource evaluation, McDermitt quadrangle, Nevada: U.S. Department of Energy, PGJ/F-045(82) 29 p.

Thesis

1968, Geology of the Bishop Creek area, Elko County, Nevada: MS thesis, University of Nevada, Reno, 51 p.

SPECIAL LECTURING, COURSES TAUGHT, AND TESTIMONY

Garside, L.J., 2000, Overview of Nevada geothermal resources, U.S. Department of Energy GeoPowering the West meeting, Reno, Nevada. (*Invited*)

Garside, L.J., 1994, Nevada geothermal resources use, Basin and Range Symposium sponsored by the Geothermal Resources Council in San Francisco, California. (*Invited*)

Presented a brief discussion on the status of the National Geologic Mapping Act and its possible effect on Nevada to the 1994 annual meeting of the Nevada State Mapping Advisory Committee (SMAC), in Reno.

Attended and presented a paper at the 1994 Annual Meeting of the Geothermal Resources Council, Salt Lake City, Utah.

Attended and presented an invited talk at the Basin and Range Symposium sponsored by the Geothermal Resources Council in San Francisco, California, 1994.

Garside, L.J., 1984, Nevada Geothermal Energy, *in* Geothermal Energy Developments in Nevada's Great Basin: Hearings before the subcommittee on energy and mineral resources of the U.S. Senate committee on energy and natural resources, Sparks, Nevada, April 17, 1984, p. 229–233.

Testimony, before the Nevada Senate Finance Committee (1987, 1989) and Assembly Ways and Means Committee (1987) on the Mining Cooperative Fund.

OTHER PROFESSIONAL ACTIVITIES

Reviewer, numerous manuscripts on Nevada geology for publication in journals and NBMG.

Member, Potential Gas Committee, Institute for Energy Resource Studies, Colorado School of Mines.

Co-Chairman and trip leader, Field Trip Committee, Industrial Minerals Forum, May 2003 (Reno).

Presenter, PowerPoint presentation on the Geology of the Carson City area to the Friends of Silver Saddle Ranch (BLM) and led a short field trip to Prison Hill, February 3, 2001.

Leader, field trip to the Steamboat geothermal area for the Nevada Groundwater Protection Council, September 25, 2001.

Co-chairman, Geology of Nevada Session for the Geological Society of Nevada 2000 meeting.

Field trip co-chairman, 2003 Industrial Minerals Forum, Reno.

Member, Technical Program Committee for the Geological Society of Nevada GSN2000 meeting.

President, Nevada Petroleum Society, 1996–1997.

Co-leader, Truckee River/Pyramid Lake field trip for high school science teachers, sponsored by the Nevada State Science Teachers Association.

Chair, session at the 1995 annual meeting of the Geothermal Resources Council, Reno, Nevada, October 9–11.

Reviewer, quadrangle maps and participate in field reviews of maps to be published by NBMG.

General chair, 1995 Rocky Mountain section meeting of the American Association of Petroleum Geologists to be held in Reno in July of 1995.

Attendee, meeting with other western State Geologists in Washington, D.C. to meet with congressional delegations (including Nevada's) concerning the National Geologic Map Act, 1994.

Consultant, provided free assistance and consultation to the general public, industry representatives, and government agencies on a variety of subjects related to the geology and energy and mineral resources of Nevada.

Member, Potential Gas Committee, Institute for Energy Resource Studies, Colorado School of Mines.

Honoree, listed in the Twenty-third Edition of Marquis Who's Who in the West and in the seventeenth edition of American Men and Women of Science.

Executive Secretary, Nevada Oil and Gas Conservation Commission, 1974–75.

Officer, Geological Society of Nevada (Sec.-Treas., 1969–70; Pres., 1973–74).

President, Geothermal Resources Council (local section, 1983–84).

Officer, Nevada Petroleum Society (Sec.-Treas., 1986; Pres., 1996–97; Scholarship Committee, 1998).

Attendee, numerous local, regional, national, and international professional meetings on general geology, mineral resources, petroleum, and geothermal energy.

Member, organizing committees for several professional meetings; acted as session chairman, field trip chairman, field trip leader, etc.

Visitor, over 150 mining districts in Nevada as well as numerous districts elsewhere in the U.S., Canada, Mexico, Australia, New Zealand, China, and Chile.

UNIVERSITY OF NEVADA, RENO COMMITTEES

Chair, Mackay School of Mines Personnel Committee, 1992–93, 2000–2001.

W.M. Keck Museum Committee, 2001.

Participant, review of the W.M. Keck Museum (2000).

Member, Nevada Bureau of Mines and Geology Personnel Committee, several years.

Member, W.M. Keck Museum Committee.

Member, Faculty Development Leave Committee (1993–95).

Member, Ad Hoc Faculty Senate Committee to Review Whittell Board Reorganization Council (1994–95).

MSM editorial committee for MSM tabloid (1994).

Member, Ad Hoc Review Committee for the Reorganization of the College of Agriculture Whittell Board (1992).

Committee chair, Arboretum, Appeals, Whittell, Library, Parking and Traffic (1979).

Committee member, Handicap Access, Salary and Benefits, Faculty Senate.

Mackay School of Mines Committees.

MSM Museum, Thin Section, Dean evaluation, and Bylaws committees.

NBMG Personnel Committee, Space, Summer Field Camp.

Member, search committees (often chaired) for the following positions: Geologic Mapper, Dean, Field Technician, Editor, Engineering Geologist, Junior Geologist, Computer Geologist, Industrial Minerals Geologist, Economic Geologist, Interim Dean, Dean, Hydrogeologist.

RESEARCH SUPPORT

Fallon Paiute–Shoshone Tribe, pass-through from U.S. Bureau of Indian Affairs, First-stage data collection for geothermal assessment of Fallon Paiute–Shoshone Tribe Reservation Lands, 6/1/02–7/31/03, \$39,685, L. Shevenell and L. Garside.

U.S. Department of Energy, Structural and geophysical analysis of the Desert Peak–Brady Geothermal Field: identifying links between northeast-trending structures and geothermal anomalies in the Great Basin, 3/20/02–3/19/03, \$95,811, J. Faulds, L. Garside, G. Johnson, R. Hess, and Gary Oppliger.

U.S. Department of Energy, Geochemical sampling of thermal and nonthermal waters in Nevada: Evaluation of geothermal resources for electrical power generation and direct use applications, 3/1/02–2/21/03, \$122,071 L. Shevenell, L. Garside, and G. Aerhart.

U.S. Department of Energy, Geochemical sampling of thermal and nonthermal waters in Nevada: Evaluation of geothermal resources for electrical power generation and direct use applications, 3/1/02–2/21/03, \$122,071 L. Shevenell, L. Garside, G. Aerhart.

U.S. Department of Energy through the Nevada State Energy Office, Nevada Geothermal Research Database and Web Site, 9/01/01–8/31/03, \$74,729, L. Garside and L. Shevenell.

U.S. Geological Survey, STATEMAP, Geologic map of the north half of the Virginia City Quadrangle, Nevada, 5/1/01–4/30/02, \$20,008, L. Garside and S. Castor.

U.S. Geological Survey, STATEMAP, Geologic map of the Minden Quadrangle, Nevada, 5/1/01–4/30/02, \$40,199, L. Garside, C. dePolo, and A. Ramelli.

U.S. Geological Survey, STATEMAP, Geologic map of the south half of the Virginia City Quadrangle, Nevada, 5/1/00–8/30/01, \$12,140 proposed to and funded by the program. Includes and additional \$28,792 as cost share, L. Garside, and S. Castor.

- U.S. Department of Energy, Geothermal Resources Map of Nevada, 5/00–7/00, \$20,343, L. Garside and L. Shevenell.
- U.S. Geological Survey, STATEMAP, Geologic maps of the Fraser Flat and Moses Rock (west half) Quadrangles, 5/1/98–4/30/99, part of the \$28,952 proposed and funded. Includes an additional \$103,667 as cost share, L. Garside, S. Castor, C. dePolo, and J. Rigby.
- U.S. Geological Survey, STATEMAP, Principal investigator on a grant to produce a geologic map of the east half of the Griffith Canyon Quadrangle (part of the Project), 5/1/97–4/30/98, \$16,114 proposed and funded, includes an additional \$26,227 as cost share, L. Garside.
- U.S. Geological Survey, STATEMAP, Geologic map of the McTarnahan Hill Quadrangle, 5/1/97–4/30/98, \$19,930 proposed and funded, includes an additional \$68,051 as cost share, L. Garside and J. Rigby.
- U.S. Bureau of Land Management, Mineral assessment of public lands: Pah Rah area, 2/6/98–12/1/98, \$39,163, L.J. Garside, J.V. Tingley, and S.B. Castor.
- U.S. Department of Energy/TRW, Evaluate geochemical analyses, Yucca Mountain, 10/1/97–9/30/98, \$38,514, L.J. Garside, S.B. Castor, and J.V. Tingley.
- U.S. Bureau of Land Management, Mineral assessment of the Washoe County Open Space Plan Amendment Area, \$54,000 proposed and funded, L.J. Garside, J.V. Tingley, and S.B. Castor.
- U.S. Bureau of Land Management, Mineral assessment of public lands: Carson City district, 2/6/98–3/30/98, \$45,149 plus \$29,837 cost share, L.J. Garside, J.V. Tingley, and S.B. Castor.
- Mariah Associates, Inc. (U.S. Corp of Engineers/U.S. Air Force), Mineral survey and assessment of the Nellis Air Force Ranges, Nye, Lincoln, and Clark Counties, Nevada, 10/27/93–12/31/97, \$1,113,269, J.V. Tingley, S.B. Castor, L.J. Garside, and H.F. Bonham, Jr.
- U.S. Department of Energy/TRW, Metallic resources of the Yucca Mountain proposed nuclear waste repository (\$290,000 proposed and funded), L.J. Garside and Steve Castor.
- U.S. Department of Energy, Lockheed Idaho Technologies Co., Nevada geothermal gradient drill holes, \$50,000 proposed: \$49,794 funded, final report delivered spring 1997, L.J. Garside.
- U.S. Department of Energy, Geothermal resources of the Yucca Mountain proposed nuclear waste repository, \$55,151 proposed, \$49,864 funded, Harry Reid Center at the University of Nevada, Las Vegas, L.J. Garside and Lisa Shevenell.
- U.S. Department of Energy, Metallic resources of the Yucca Mountain proposed nuclear waste repository, \$275,382 proposed and funded, L.J. Garside and Steve Castor.
- U.S. Geological Survey, Co-principal investigator on a grant for large-scale geologic mapping in the Reno-Carson City area, proposed - \$40,443; funded - \$20,000, L.J. Garside and others.
- U.S. Department of Energy, Oregon Institute of Technology, Nevada's low-temperature geothermal resources, \$55,000 proposed and funded, L.J. Garside.
- U.S. Geological Survey, Large-scale geologic mapping in the Reno-Carson City area, 7/92–6/93, proposed - \$52,296; funded - \$40,000, L.J. Garside and J.W. Bell.
- Sergeant, Hauskins and Beckwith, Consulting geotechnical engineers for Washoe County Planning, Gravel, decomposed granite, and crushed stone resources of the southern portion of Washoe County, Nevada, 5/92–4/93, \$10,696., L.J. Garside, and S.B. Castor.
- U.S. Fish and Wildlife Service, Desert National Wildlife Range, Eastern Section, Mineral resource analysis, 1/92–1/93, \$254,000, L.J. Garside, J.V. Tingley, S.B. Castor, and H.F. Bonham, Jr.
- U.S. Geological Survey, Reno Field Office, Mineral resources of the Nevada portion of the Susanville BLM District, 7/90–10/90, \$5,000, L.J. Garside.
- U.S. Geological Survey, COGEOMAP, Large-scale geologic mapping in the Reno-Carson City area, Nevada, 6/91–6/92, \$25,000, L.J. Garside and J.W. Bell.
- U.S. Geological Survey, Reno Field Office, Triassic-Jurassic mineral systems, western Nevada and eastern California (Peavine Sequence), 7/90–10/90, \$7,500, L.J. Garside.
- U.S. Geological Survey, COGEOMAP, Large-scale geologic mapping in the Reno-Carson City area, Nevada, 6/90–6/91, \$10,000, L.J. Garside and J.W. Bell.
- Various Nevada mining companies, Geochemical sampling and characterization program, 3/90–12/90, \$109,191, L.J. Garside, J.G. Price, H.F. Bonham, Jr., and L.C. Hsu.
- U.S. Geological Survey, Reno Field Office, Triassic-Jurassic Mineral Systems, Western Nevada and Eastern California (Peavine Sequence), 7/89–6/90, \$5,300, L.J. Garside.
- U.S. Geological Survey, COGEOMAP, Large-scale geologic mapping in the Reno-Carson City area, Nevada, 6/89–6/90, \$10,000, L.J. Garside and J.W. Bell.

Nevada Department of Minerals, Economic Impacts of Nevada Mining, 9/88–1/89, \$4,076, L.J. Garside and J. Dobra.
U.S. Department of Energy, Bendix Field Engineering, National uranium resource evaluation-McDermitt 1x2-degree
sheet, 3/78–1/80, \$220,045, L.J. Garside.