

## Jonathan G. Price

### Professional Summary

#### PERSONAL

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#### EDUCATION

B.A. Geology and German, Lehigh University, 1972 (with highest honors)  
M.A. Geology, University of California, Berkeley, 1975  
Ph.D. Geology, University of California, Berkeley, 1977

#### AREAS OF EXPERTISE

Geology  
Geology and geochemistry of ore deposits  
Igneous petrology  
Aqueous geochemistry  
Environmental geochemistry  
Solution mining  
Geological hazards  
Management of research and public service programs  
Review and editing of technical documents, reports, and maps

#### PROFESSIONAL WORK EXPERIENCE

- A. State Geologist Emeritus  
Nevada Bureau of Mines and Geology  
Mackay School of Earth Sciences and Engineering  
University of Nevada, Reno  
(July 2012 – present)

Activities include consulting in matters concerning geology and mineral resources, and volunteering with various mining and geological organizations.

- B. Director/State Geologist and Research Geologist (Rank IV)/Professor,  
Nevada Bureau of Mines and Geology  
Mackay School of Earth Sciences and Engineering  
University of Nevada, Reno  
(September 1988 – June 2012; tenured, 1990; on loan to the National  
Research Council from February 1993 to February 1995)

Primary responsibilities included developing and conducting geological and mineral-resource research programs; providing information to the public, governmental agencies, and industry on the geology, geologic hazards, mineral and energy resources, and environment of the State of Nevada; and administering the State geological survey. Areas of personal research included geochemistry of ores and unmineralized rocks, mineral-resource assessment, igneous petrology, aqueous geochemistry, and geological hazards.

- C. Staff Director, Board on Earth Sciences and Resources  
Commission on Geosciences, Environment, and Resources  
National Research Council  
National Academy of Sciences, Washington, D.C.  
(February 1993 - February 1995)

The National Research Council, a unit of the National Academy of Sciences, primarily advises the federal government on science issues, including basic research, use of science and technology in society, and policy. The Board on Earth Sciences and Resources is the group within the National Research Council that addresses issues relating to the solid earth sciences and to natural resources, such as petroleum and minerals. Members of the Board and its committees are volunteers, who are accomplished scientists and engineers from the Nation's universities, government, and private sector. Responsibilities of the Staff Director included providing assistance to the Board and its committees in writing and disseminating reports, developing programs with those federal agencies concerned with earth science and resource issues, and supervising staff officers and support staff. The Board released eighteen reports during this two-year period.

- D. The University of Texas at Austin, Bureau of Economic Geology  
(January 1981 - August 1988)  
Director, Texas Mining and Mineral Resources Research Institute  
(November 1984 - August 1988)  
Program Director, Mineral Resources (March 1987 - August 1988)  
Research Scientist (September 1985 - August 1988)  
Research Associate (January 1981 - August 1985)  
The University of Texas at Austin, Department of Geological Sciences  
(January 1988 - May 1988): Lecturer

Research was conducted and directed on mineral resources and geochemical aspects of nuclear waste disposal. Specific areas of research included origins of ores of beryllium and rare earth elements, thermodynamic approaches to the calculation of magmatic conditions from mineral compositions determined by electron microprobe analyses, igneous petrology and Mesozoic-Cenozoic tectonics of Trans-Pecos Texas and adjacent Mexico, relationships between hydrothermal ores and Tertiary calderas in the Trans-Pecos region, tectonic controls on the size of epithermal vein deposits, origin of silver deposits in red-bed sequences, in-situ uranium leaching, mineral resource assessment, and geochemical modeling. Teaching involved a graduate course in geochemical modeling and short courses on thermodynamics and reflected light microscopy.

- E. Geologist, United States Steel Corporation, Corpus Christi, Texas  
(June 1978 - January 1981), and Salt Lake City, Utah (June 1977 -  
August 1977)

Most work was in uranium exploration in South Texas; some work involved production geology and geochemistry. The main task during the summer of 1977 was deciphering the structure of a skarn deposit on the Lyon claims near Yerington, Nevada.

- F. Adjunct Assistant Professor, Bucknell University, Lewisburg,  
Pennsylvania (August 1977 - June 1978)

Courses were taught in economic geology and physical geology.

- G. Geologist, The Anaconda Company, Weed Heights, Nevada  
(June 1974 - September 1974; June 1975 - September 1975)

Mapping in the Yerington copper mine and logging of core were done as part of the Ph.D. dissertation.

## PROFESSIONAL SOCIETIES (Membership and Key Areas of Volunteer Service)

- American Association for the Advancement of Science  
American Association of Petroleum Geologists (Member, Organizing Committee, Conference on Meeting Societal Resource and Environmental Requirements for the 21<sup>st</sup> Century, Taos, New Mexico, 1998)
- American Geological Institute (Member, Government Affairs Program Advisory Committee, 1993-1996; Higher Education Geoscience Advisory Board, 1993-1998; Fiftieth Anniversary Committee, 1993-1996; National Geoscience Data Repository Steering Committee, 1993-1995 and 2002-2005; Committee on Accreditation of Undergraduate Geology Departments, 1993-1995; Strategic Planning Committee, 1995; Chair, Ian Campbell Award Committee, 1997; Member, Working Group on the Critical Needs 2016 Transition Document, 2015)
- American Geophysical Union (assisted in career discussions with students, fall meeting, 2009)
- American Institute of Professional Geologists (President, 1997; President-Elect, 1996; Chair, Technical Sessions Committee, 1992 Annual Meeting; Nevada Section President, 1992; Co-convenor, Conference on Ethics in the Geosciences, sponsored by GSA, AAPG, AIPG, U.S. Geological Survey, and National Science Foundation, 1997; Certified Professional Geologist, CPG-07814)
- Association of American State Geologists (President, 2000-01, President-Elect, 1999-2000, Vice President, 1998-99, Treasurer, 1996-98, Secretary-Treasurer, 1995-96)
- Association of Environmental and Engineering Geologists (Keynote Speaker at annual meetings in 2002, 2005, and 2009; Vice-Chair, Joint AIPG-AEG Annual Meeting Organizing Committee for 2002)
- Geological Society of America (President, 2015-2016; Past President, 2016-2017; Vice President, 2014-2015; Treasurer, 2009-2014; Member, Audit Committee, 2018-2021, 2009-2014, and 2005-2008 (Chair, 2007-2008); Chair, Finance Committee, 2009-2014; Member, Investment Committee, 2009-2014; Member, Executive Committee and Programmatic Overview Committee, 2006-2007 and 2009-2017; Councilor, 2005-2008; Member, Annual Program Committee, 1996-1999 and 2005-2009; Chair, Panel on Energy and Mineral Resources Position Statement, 2006-2008; Member, Geology and Public Policy Committee, 2004-2006)
- Geological Society of Nevada (President, 2014-2015; Past President, 2015-2016; Vice President, 2013-2014, General Co-Chair, 2005 Symposium; Co-Chair, Technical Program, and Co-Editor, Symposium Volume, 2000)
- Mineralogical Society of America
- Mining and Metallurgical Society of America (Nevada Section Chair, 2008-2011; Member, Action Committee, 2009; Program Chair, Symposium on Minerals for a Green Society, 2009-2010)
- Nevada Mineral Exploration Coalition (Interim Chair, Public Policy Committee, 2012-2013)
- Nevada Mining Association (Member, Education Committee, 1989-present)
- Nevada Petroleum and Geothermal Society (Vice President and President-Elect, 2005-2006; President, 2006-2007)
- Sigma Xi, The Scientific Research Society
- Society of Economic Geologists (President-Elect, 2002; President, 2003; Trustee, SEG Foundation, 1997-2001; Chair, Lindgren Award Committee, 1992-1993, Member, 1990-1993; Member, Ad Hoc Committee on Professional Ethics, 1999; Committee on Committees, 1992-1993; Program Policy Committee, 1987-1988)
- Society for Geology Applied to Mineral Deposits
- Society for Mining, Metallurgy, and Exploration (Member, Board of Directors, 2011-2014; Representative from SME to the American Geological Institute's Member Society Council, 2008-2014; Representative from SME Foundation on the Mining and Metallurgical Society of America – SME Foundation Presidential Scholarship Committee, 2007; Trustee, 2001-2008, Secretary-Treasurer, SME Foundation, 2004-2008; Member, Investment Committee, SME Foundation, 1999-2003; Vice Chair, 1997, Chair, 1998-2000, SME Research Council; Chair, Central Texas Mining Section of the Society of Mining Engineers, 1987; Vice-Chairman, 1986)
- Western States Seismic Policy Council (President and Chair, Board of Directors, 1998-2002; Member, Board of Directors, 1995-2002).

## AWARDS AND HONORS

- Service Award, Nevada Mining Association, for 29 years of service with the Minerals Education Workshops for Nevada Teachers, 2018
- Honorary Member, Geological Society of Nevada (elected in 2017)
- Ben H. Parker Memorial Medal, American Institute of Professional Geologists, 2013 (“for distinguished and outstanding service to the profession”)
- 2013 Bureau of Economic Geology Alumnus of the Year, The University of Texas at Austin
- Distinguished Service Award, Association of American State Geologists, 2013 (“for distinguished and dedicated service to the profession of geology, to the public, and to the Association of American State Geologists”)
- Gold Medal, Mining and Metallurgical Society of America, 2013 (“for significant contributions to the science of economic geology in the minerals industry, academia, and government”)
- Honorary Member, Association of American State Geologists (elected in 2012)
- Western States Seismic Policy Council Lifetime Achievement Award, 2012 (“in recognition of his public policy advocacy and his indefatigable support of seismic safety in Nevada and across the nation”)
- Distinguished Service Award, 2012, Mackay School of Earth Sciences and Engineering, University of Nevada, Reno
- President’s Award, Nevada Organization of Building Officials, 2011 (“for contributions to a safe built environment for the citizens of Nevada”)
- Public Service Award in Honor of Eugene and Carolyn Shoemaker, Geological Society of America, 2010 (“for contributions that have materially enhanced the public's understanding of the earth sciences, or significantly served decision-makers in the application of scientific and technical information in public affairs and public policy related to the earth sciences”)
- President’s Citation, Mining and Metallurgical Society of America, 2010 (for chairing the organizing committee for the 4 February 2010 symposium on “Minerals for a Green Society” in Washington, D.C.)
- Ian Campbell Medal for Superlative Service to the Geosciences, American Geological Institute, 2009 (“for his exceptional commitment, service, and dedication to the geological profession”)
- Mackay Faculty Service Award for 2006 from the Mackay School of Earth Sciences and Engineering, University of Nevada, Reno
- Dedication of the Proceedings Volume, Basin and Range Province Seismic Hazards Summit II, Western States Seismic Policy Council, Utah Geological Survey Miscellaneous Publication 05-2, 2005 (“to Dr. Jonathan G. Price in recognition of his leadership in the WSSPC, his participation and support of BRPSHS I and II, and his support of basic and applied seismic-hazard-reduction research in the Basin and Range Province”)
- Leadership Award, Western States Seismic Policy Council, 2003 (“for leadership as WSSPC Board Chair from 1998 - 2002”)
- Elected to membership in the Mining and Metallurgical Society of America, 2002
- Award in Excellence for Mitigation Efforts, Western States Seismic Policy Council, 2002 (awarded to the Nevada Bureau of Mines and Geology and the Clark County Building Department for mitigation of fault-related hazards)
- John T. Galey, Sr. Memorial Public Service Award, American Institute of Professional Geologists, 1999 (“for outstanding contributions to the public welfare in the highest traditions and ideals of AIPG”)
- Platinum Award (first place), ThinkQuest for Tomorrow’s Teachers, Materials for Use in Teacher Education, 1999 (ThinkQuest is a philanthropic initiative created by Advanced Network & Services. The award was for design of a Web site titled “The Science of the Comstock.” Team members included Collette Craig, Elisabeth Price, John Fuetsch, Lindsay Craig, and Jonathan Price.)
- Explorer Award, American Geological Institute, 1995 (“in appreciation of his dedication and contributions to the geoscience community in bringing the leadership of the geosciences together to address and act on critical issues for the profession”)
- Fellow, Geological Society of America, elected 1989
- Fellow, Society of Economic Geologists
- Fellowship, Deutscher Akademischer Austauschdienst for study at the Universität Heidelberg, West Germany, September 1972 - July 1973
- Delta Phi Alpha, National Honorary German Fraternity, elected to membership in 1972
- Society of Sigma Xi, elected to membership in 1972
- Phi Beta Kappa, elected to membership in 1972

## PUBLICATIONS

### Peer-Reviewed Reports Published by Geological Surveys

- Price, J.G., Johnson, G., dePolo, C.M., and Carlson, W., 2012, Preliminary assessment of potentially unreinforced masonry buildings in Nevada: Nevada Bureau of Mines and Geology Report 54, 38 p.
- Price, J.G., Muntean, J.L., Davis, D.A., Shevenell, L., and Zehner, R., 2011, The Nevada mineral industry - 2010: Nevada Bureau of Mines and Geology Special Publication MI-2010, 180 p. (Overview by J.G. Price, p. 3-20), available on line at <http://www.nbmj.unr.edu/dox/mi/11.pdf>.
- Price, J.G., Hess, R.H., Johnson, G.L., dePolo, C.M., and Hastings, J.T., 2011, Loss-estimation modeling based on the 2008 Wells, Nevada earthquake, in dePolo, C.M., and LaPointe, D.D., eds., The 21 February 2008 Mw 6.0 Wells, Nevada earthquake: Nevada Bureau of Mines and Geology Special Publication 36, p. 403-414, <http://www.nbmj.unr.edu/Pubs/sp/sp36/index.html>.
- Price, J.G., Muntean, J.L., Davis, D.A., Shevenell, L., Zehner, R., Price, L., and Wells, L., 2010, The Nevada mineral industry - 2009: Nevada Bureau of Mines and Geology Special Publication MI-2009, 180 p. (Overview by J.G. Price, p. 3-26), available on line at <http://www.nbmj.unr.edu/dox/mi/09.pdf>.
- Price, J.G., Muntean, J.L., Davis, D.A., Hess, R.H., and Shevenell, L., 2009, The Nevada mineral industry - 2008: Nevada Bureau of Mines and Geology Special Publication MI-2008, 175 p. (Overview by J.G. Price, p. 3-24), available on line at <http://www.nbmj.unr.edu/dox/mi/08.pdf>.
- Price, J.G., Muntean, J.L., Davis, D.A., and Hess, R.H., 2008, The Nevada mineral industry - 2007: Nevada Bureau of Mines and Geology Special Publication MI-2007, 178 p. (Overview by J.G. Price, p. 3-26), available on line at <http://www.nbmj.unr.edu/dox/mi/07.pdf>.
- Sturmer, D.M., LaPointe, D.D., Price, J.G., and Hess, R.H., 2007, Assessment of the potential for carbon dioxide sequestration by reactions with rocks in Nevada: Nevada Bureau of Mines and Geology Report 52, 43 p.
- Price, J.G., Meeuwig, R.O., Muntean, J.L., Castor, S.B., Hess, R.H., and Davis, D.A., 2007, The Nevada mineral industry - 2006: Nevada Bureau of Mines and Geology Special Publication MI-2006, 96 p. (Overview by J.G. Price and R.O. Meeuwig, p. 3-13), available on line at <http://www.nbmj.unr.edu/dox/mi/06.pdf>.
- Price, J.G., Meeuwig, R.O., Muntean, J.L., Castor, S.B., Hess, R.H., and Davis, D.A., 2006, The Nevada mineral industry - 2005: Nevada Bureau of Mines and Geology Special Publication MI-2005, 80 p. (Overview by J.G. Price and R.O. Meeuwig, p. 3-12.)
- 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.
- Price, J.G., Meeuwig, R.O., Tingley, J.V., Castor, S.B., Hess, R.H., and Davis, D.A., 2005, The Nevada mineral industry - 2004: Nevada Bureau of Mines and Geology Special Publication MI-2004, 80 p. (Overview by J.G. Price and R.O. Meeuwig, p. 3-12.)
- Price, J.G., Meeuwig, R.O., Tingley, J.V., Castor, S.B., Hess, R.H., and Davis, D.A., 2004, The Nevada mineral industry - 2003: Nevada Bureau of Mines and Geology Special Publication MI-2003, 70 p. (Overview by J.G. Price and R.O. Meeuwig, p. 3-11.)
- Price, J.G., 2004, Geology of Nevada, in Castor, S.B., Papke, K.G., and Meeuwig, R.O., eds., Betting on industrial minerals, Proceedings of the 39<sup>th</sup> Forum on the Geology of Industrial Minerals, Reno/Sparks, Nevada, May 18-24, 2003, Nevada Bureau of Mines and Geology Special Publication 33, p. 191-200.
- Price, J.G., Meeuwig, R.O., Tingley, J.V., Castor, S.B., Hess, R.H., and Davis, D.A., 2003, The Nevada mineral industry - 2002: Nevada Bureau of Mines and Geology Special Publication MI-2002, 70 p. (Overview by J.G. Price and R.O. Meeuwig, p. 3-11.)
- Price, J.G., Meeuwig, R.O., Tingley, J.V., La Pointe, D.D., Castor, S.B., Davis, D.A., and Hess, R.H., 2002, The Nevada mineral industry - 2001: Nevada Bureau of Mines and Geology Special Publication MI-2001, 66 p. (Overview by J.G. Price and R.O. Meeuwig, p. 3-12.)
- Price, J.G., Meeuwig, R.O., Tingley, J.V., La Pointe, D.D., Castor, S.B., Hess, R.H., and Davis, D.A., 2001, The Nevada mineral industry - 2000: Nevada Bureau of Mines and Geology Special Publication MI-2000, 61 p. (Overview by J.G. Price and R.O. Meeuwig, p. 3-11.)
- Tingley, J.V., Purkey, B.W., Duebendorfer, E.M., Smith, E.I., Price, J.G., and Castor, S.B., 2001, Geologic tours in the Las Vegas area, Expanded edition: Nevada Bureau of Mines and Geology Special Publication 16, 140 p.

- Price, J.G., Meeuwig, R.O., Tingley, J.V., La Pointe, D.D., Castor, S.B., Hess, R.H., and Davis, D.A., 2000, The Nevada mineral industry - 1999: Nevada Bureau of Mines and Geology Special Publication MI-1999, 60 p. (Overview by J.G. Price and R.O. Meeuwig, p. 3-9.)
- Price, J.G., Meeuwig, R.O., Tingley, J.V., La Pointe, D.D., Hess, R.H., Bonham, H.F., Jr., Castor, S.B., and Davis, D.A., 1999, The Nevada mineral industry - 1998: Nevada Bureau of Mines and Geology Special Publication MI-1998, 59 p. (Overview by J.G. Price and R.O. Meeuwig, p. 3-9.)
- Albertsen, C., Baumgardner, T., Bruns, T., Burkett, E., Burton, R., Duncan, R., Enot, J., Lissner, F., Mack, P., McCurry, W., Ogden, F., Phelps, D., Pope, D., Price, J., Rowe, L., Shotwell, J., Smith, E., Spooner, C., Tsai, F., Vicory, A., Wedderburn, L., and Woodward, D. (compiled by S.F. Blanchard), 1999, External task force review of the United States Geological Survey Federal-State Cooperative Water Program: U.S. Geological Survey Circular 1192, 22 p. (and appendices, 222 p.)
- Price, J.G., Tingley, J.V., La Pointe, D.D., Hess, R.H., Bonham, H.F., Jr., Castor, S.B., and Davis, D.A., 1998, The Nevada mineral industry - 1997: Nevada Bureau of Mines and Geology Special Publication MI-1997, 60 p. (Overview by J.G. Price, p. 3-9.)
- Price, J.G., Meeuwig, R.O., Tingley, J.V., La Pointe, D.D., Hess, R.H., Bonham, H.F., Jr., Castor, S.B., and Davis, D.A., 1997, The Nevada mineral industry - 1996: Nevada Bureau of Mines and Geology Special Publication MI-1996, 54 p. (Summary by J.G. Price and R.O. Meeuwig, p. 3-8.)
- Price, J.G., Tingley, J.V., La Pointe, D.D., Bonham, H.F., Jr., Hess, R.H., Castor, S.B., and Davis, D.A., 1996, The Nevada mineral industry - 1995: Nevada Bureau of Mines and Geology Special Publication MI-1995, 54 p. (Summary by J.G. Price, p. 3-8.)
- Price, J.G., Tingley, J.V., Bonham, H.F., Jr., Hess, R.H., Castor, S.B., Christensen, L., and Davis, D. A., 1995, The Nevada mineral industry - 1994: Nevada Bureau of Mines and Geology Special Publication MI-1994, 57 p. (Summary by J.G. Price, p. 3-10.)
- Purkey, B.W., Duebendorfer, E.M., Smith, E.I., Price, J.G., and Castor, S.B., 1994, Geologic tours in the Las Vegas area: Nevada Bureau of Mines and Geology Special Publication 15, 156 p.
- Rigby, J.G., Price, J.G., Christensen, L.G., LaPointe, D.D., Ramelli, A.R., Desilets, M.O., Hess, R.H., and Marshall, S.R., 1994, Radon in Nevada: Nevada Bureau of Mines and Geology Bulletin 108, 76 p.
- Price, J.G., Jones, R.B., Bonham, H.F., Jr., Hess, R.H., Castor, S.B., and Purkey, B.W., 1992, The Nevada mineral industry - 1991: Nevada Bureau of Mines and Geology Special Publication MI-1991, 51 p. (Summary by J. G. Price, p. 3-10.)
- Henry, C.D., Price, J.G., Duex, T.W., and James, E.W., 1992, Geology of the Infiernito caldera and magmatic evolution of the Chinati Mountains, Trans-Pecos Texas: The University of Texas at Austin, Bureau of Economic Geology Report of Investigations No. 206, 56 p.
- Price, J.G., Jones, R.B., Bonham, H.F., Jr., Hess, R.H., Castor, S.B., and Purkey, B.W., 1991, The Nevada mineral industry - 1990: Nevada Bureau of Mines and Geology Special Publication MI-1990, 55 p. (Summary by J. G. Price, p. 3-10.)
- Price, J.G., Jones, R.B., Bonham, H.F., Jr., Hess, R.H., Castor, S.B., Fleming, K.L., Purkey, B.W., and Garside, L.J., 1990, The Nevada mineral industry - 1989: Nevada Bureau of Mines and Geology Special Publication MI-1989, 55 p. (Summary by J.G. Price, p. 3-9.)
- Johnson, W.D., Jr., Hawley, J.W., Stone, W.J., Kottlowski, F.E., Henry, C.D., and Price, J.G., 1989, Geology, *in* Bedinger, M.S., Sargent, K.A., and Langer, W.H., eds., Studies of geology and hydrology in the Basin and Range province, southwestern United States, for isolation of high-level radioactive waste—Characterization of the Rio Grande region, New Mexico and Texas: U.S. Geological Survey Professional Paper 1370-C, p. C7-C19, supersedes U.S. Geological Survey Open-File Report 84-740, 1984, p. 16-71.
- Price, J.G., Jones, R.B., Bonham, H.F., Jr., Castor, S.B., Purkey, B.W., Hess, R., Garside, L.J., and Fleming, K.L., 1989, The Nevada mineral industry - 1988: Nevada Bureau of Mines and Geology Special Publication MI-1988, 58 p. (Summary by J.G. Price, p. 3-7.)
- Henry, C.D., and Price, J.G., 1989, Geology, *in* Bedinger, M.S., Sargent, K.A., and Langer, W.H., eds., Studies of geology and hydrology in the Basin and Range province, southwestern United States, for isolation of high-level radioactive waste—Characterization of the Trans-Pecos region, Texas: U.S. Geological Survey Professional Paper 1370-B, p. B4-B22, supersedes U.S. Geological Survey Open-File Report 84-739, 1984, p. 10-55.
- Henry, C.D., Price, J.G., and Sargent, K.A., 1989, Quaternary tectonism, *in* Bedinger, M.S., Sargent, K.A., and Langer, W.H., eds., Studies of geology and hydrology in the Basin and Range province, southwestern United States, for isolation of high-level radioactive waste - Characterization of the Trans-Pecos region,

- Texas: U.S. Geological Survey Professional Paper 1370-B, p. B26-B30, supersedes U.S. Geological Survey Open-File Report 84-739, 1984, p. 65-79.
- Price, J.G., Henry, C.D., and Brady, B.T., 1989, Mineral and energy resources, *in* Bedinger, M.S., Sargent, K.A., and Langer, W.H., eds., Studies of geology and hydrology in the Basin and Range province, southwestern United States, for isolation of high-level radioactive waste - Characterization of the Trans-Pecos region, Texas: U.S. Geological Survey Professional Paper 1370-B, p. B38-B43, supersedes U.S. Geological Survey Open-File Report 84-739, 1984, p. 103-122.
- Hentz, T.F., Price, J.G., and Gutierrez, G.N., 1989, Geologic occurrence and regional assessment of evaporite-hosted native sulfur, Trans-Pecos Texas: The University of Texas at Austin, Bureau of Economic Geology Report of Investigations No. 184, 70 p.
- Henry, C.D., Price, J.G., Parker, D.F., and Wolff, J.A., 1989, Mid-Tertiary silicic alkalic magmatism of Trans-Pecos Texas: rheomorphic tuffs and extensive silicic lavas: New Mexico Bureau of Mines and Mineral Resources Memoir 46, p. 231-274.
- Henry, C.D., Price, J.G., and Miser, D., 1989, Geology and Tertiary igneous activity of the Hen Egg Mountain and Christmas Mountains Quadrangles, Big Bend region, Trans-Pecos Texas: The University of Texas at Austin, Bureau of Economic Geology Report of Investigations No. 183, 105 p.
- Price, J.G., Henry, C.D., Parker, D.F., and Barker, D.S., eds., 1986, Igneous geology of Trans-Pecos Texas, field trip guide and research articles: The University of Texas at Austin, Bureau of Economic Geology Guidebook 23, 360 p.
- Price, J.G., Henry, C.D., Barker, D.S., and Rubin, J.N., 1986, Petrology of the Marble Canyon stock, *in* Price, J.G., Henry, C.D., Parker, D.F., and Barker, D.S., eds., Igneous geology of Trans-Pecos Texas, field trip guide and research articles: The University of Texas at Austin, Bureau of Economic Geology Guidebook 23, p. 303-319.
- Price, J.G., Henry, C.D., Barker, D.S., and Parker, D.F., 1986, Directions of research on the igneous geology of Trans-Pecos Texas *in* Price, J.G., Henry, C.D., Parker, D.F., and Barker, D.S., eds., Igneous geology of Trans-Pecos Texas, field trip guide and research articles: The University of Texas at Austin, Bureau of Economic Geology Guidebook 23, p. 353-360.
- Henry, C.D., and Price, J.G., 1986, The Van Horn Mountains caldera, Trans-Pecos Texas: geology and development of a small (10 km<sup>2</sup>) ash-flow caldera: The University of Texas at Austin, Bureau of Economic Geology Report of Investigations, 48 p.
- Henry, C.D., McDowell, F.W., Price, J.G., and Smyth, R.C., 1986, Compilation of potassium-argon ages of Tertiary igneous rocks, Trans-Pecos Texas: The University of Texas at Austin, Bureau of Economic Geology Geological Circular 86-2, 34 p.
- Price, J.G., Henry, C.D., Standen, A.R., and Posey, J.S., 1985, Origin of silver-copper-lead deposits in red-bed sequences of Trans-Pecos Texas: Tertiary mineralization in Precambrian, Permian, and Cretaceous sandstones: The University of Texas at Austin, Bureau of Economic Geology Report of Investigations No. 145, 65 p.
- Henry, C.D., and Price, J.G., 1985, Summary of the tectonic development of Trans-Pecos Texas: The University of Texas at Austin, Bureau of Economic Geology, notes to accompany Miscellaneous Map 36, 8 p.
- Price, J.G., Henry, C.D., and Standen, A.R., 1983, Annotated bibliography of mineral deposits in Trans-Pecos Texas: The University of Texas at Austin, Bureau of Economic Geology Mineral Resource Circular No. 73, 108 p.
- Price, J.G., 1982, Geology of the Plata Verde Mine, Hudspeth County, Texas: The University of Texas at Austin, Bureau of Economic Geology Mineral Resource Circular No. 70, 34 p.

### Articles in Refereed Journals

- Price, J.G., 2019, Opportunities in global mineral resources: *Boletín Geológico y Minero*, v. 130, no. 1, p. 47-56.
- Sturmer, D.M., Tempel, R.N., and Price, J.G., 2019, Modeling mafic carbonation efficiency using mafic rock chemistries from Nevada, USA: *Computers & Geosciences*, v. 123, February 2019, p. 149-160, <https://doi.org/10.1016/j.cageo.2018.12.003>.
- Price, J.G., and Espi, J.A., 2014, Disponibilidad y retos actuales de los recursos minerales para la sociedad: *Boletín Geológico y Minero*, v. 125, no. 1, p. 3-29, ISSN: 0366-0176.

- Price, J.G., Hastings, J.T., Goar, L.D., Armeno, H., Johnson, G., dePolo, C.M., Hess, R.H., and Ballard, C.M., 2010, Sensitivity analysis of loss-estimation modeling using uncertainties in earthquake parameters: *Environmental and Engineering Geoscience*, v. 16, no. 4, p. 357-367.
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Price, J.G., Update on mining and exploration in Nevada, Northern Nevada Section of the Society for Mining, Metallurgy, and Exploration, Sparks (January 25, 2008).

Price, J.G., Potential for carbon sequestration in Nevada, Nevada Department of Conservation and Natural Resources, Climate Change Subcommittee, Carson City (January, 2008).

Northeastern Nevada Section of the Society for Mining, Metallurgy, and Exploration (Winnemucca, 2007), Nevada Hazard Mitigation Planning Committee (Las Vegas, 2007), Society for Geology Applied to Mineral Deposits (Dublin, Ireland, 2007), University of Nevada, Reno (2X, 2007), Association of Environmental and Engineering Geologists (Reno, 2007), Geological Society of Nevada (Reno, 2007), West Coast Regional Carbon Sequestration Partnership (Seattle, 2007), Northwest Mining Association (Spokane, Washington, 2X, 2007).

University of Nevada, Reno (2X, 2006), Northwest Mining Association (3X, Reno, 2006), Nevada Association of Counties (Las Vegas, 2006), Workshop on Needs for Geoscience in Southern Nevada (Las Vegas, 2006), Nevada Geothermal Council (Reno, 2006), Northern Nevada Section of the Society for Mining, Metallurgy, and Exploration, Reno (Reno, 2006), Sierra Pacific Power Company and western utilities (Lake Tahoe, 2006), Humboldt

County Commission and Winnemucca City Council (2006), University of Nevada, Las Vegas (2006), Pahrump Town Board (2006), International Masters' Program (3X, Lima, Peru, 2006), Nevada Division of Emergency Management, Carson City (2006), Nevada Earthquake Safety Council, Las Vegas (2006), Eurasian mining delegation, Reno (2006), Mackay School of Earth Sciences and Engineering Advisory Board (Reno, 2006), Nevada System of Higher Education (Reno, 2006), Nevada State Museum, Carson City (2006), University of Utah (Salt Lake City, 2006).

Society for Amateur Scientists (Las Vegas, 2005), University of Nevada, Las Vegas (2005), Geological Society of Nevada (Las Vegas, 2005), University of Nevada, Reno (3X, 2005), Lion's Club (Reno, 2005), Bat Conservation International (Boomtown, Nevada, 2005), Chinese delegation (Reno, 2005), Bureau of Land Management (Reno, 2005), Elko Mine Expo (Elko, Nevada, 2005), Northwest Mining Association (Spokane, 2005), Nevada Department of Conservation and Natural Resources (Carson City, 2005), Nevada State Energy Office (Carson City, 2005).

Northwest Mining Association (Spokane, Washington, 2004), U.S. Department of Energy WESTCARB Consortium (Portland, Oregon), University of Tasmania (Hobart, Australia), University of Nevada, Reno, HAZUS Working Group kick-off meeting (Reno), Reno Gem and Mineral Society, National Mineral Education Conference (Lake Tahoe, Nevada), Bureau of Land Management (Reno), American Chemical Society, High School Awards Ceremony (Reno), Non-Structural Earthquake Mitigation Workshop (Boomtown, Nevada), Geological Society of America Cordilleran and Rocky Mountain Sections joint meeting (Boise, Idaho), Maryland Geological Survey (Baltimore), Denver Region Exploration Geologists Society, Oregon State University (2X). Featured with D.D. La Pointe, NBMG Research Geologist, in a February 2004 episode of *Wild Nevada*, a television series of KNPB Public Broadcasting (filmed in 2003, available on DVD and VHS, using an NBMG Earth Science Week field trip).

Newcomers' Breakfast Club (Sparks, Nevada, 2003), Northwest Mining Association (2X, Spokane, Washington, 2003), Branner Club (Pasadena, California, 2003), Society of Economic Geologists and Geological Society of America (Seattle, Washington, 2003), Association of Engineering Geologists (Reno, 2003), Society for Geology Applied to Mineral Deposits (Athens, Greece, 2003), Federal Emergency Management Agency (Emmitsburg, Maryland, 2003), California Energy Commission (Sacramento, 2003), American Chemical Society (Reno, 2003), Newmont Mining Company (Cajamarca, Peru, 2003), Colorado School of Mines (Golden, 2003).

Society for Mining, Metallurgy, and Exploration, Northern Nevada Section, (Reno, 2002), Yale University (New Haven, Connecticut, 2002), Colorado School of Mines (Golden, 2002), Society for Mining, Metallurgy, and Exploration, Southern California Section (Pomona, 2002), Geological Society of Nevada, (Reno, 2002), Natives Impacted by Mining Conference (Carson City, Nevada, 2002), University of Nevada, Reno (2002), Desert Research Institute (Reno, 2002).

U.S. Department of Energy (2X, Washington, D.C., and Alexandria, VA, 2001); Comprehensive Test Ban Treaty group (Lake Tahoe, 2001); National Mining Association (Washington, D.C., 2001); American Geological Institute (Denver, 2001); Mackay School of Mines (2001); American Association of Petroleum Geologists (Washington, D.C., 2001); Nevada National Guard (Carson City, 2001); Dartmouth College (Hanover, NH, 2001); National Research Council (2X, Washington, D.C., and Las Vegas, 2001);

Northwest Mining Association (Spokane, 2000); Nevada Emergency Management Director's Conference (Las Vegas, 2000); Nevada Earthquake Safety Council (Reno, 2000); Geological Society of America (Reno, 2000); National States Geographic Information Council (Lake Tahoe, 2000); National Earthquake Risk Management Conference (Seattle, 2000); Federal Emergency Management Agency - National Earthquake Hazards Reduction Program Strategic Planning meeting (Reno, 2000); International Professional Geology Conference (2X, Alicante, Spain); American Geological Institute (Reston, Virginia, 2000); Nevada Geographic Information Society (Las Vegas, 2000); Nevada Science and Technology Symposium (Las Vegas, 2000);

State Land Use Planning Advisory Council (Reno, 1999), University of Nevada, Reno (3X, 1999), National Research Council (Washington, D.C., 2X, 1999), Nevada Division of Environmental Protection (Carson City, 1999), U.S. Forest Service and Bureau of Land Management (Sparks, 1999), Nevada Mining Association (Reno, 1999), California Mining Association (Sacramento, 1999), Northwest Mining Association (Spokane, Washington, 1999), Geological Society of America (Denver, 1999), National Science Teachers Association (Reno, 1999), Valve Manufacturers Association of America (Seattle, 1999), Reno High School (1999);

American Geological Institute (50<sup>th</sup> Anniversary Symposium on the Future of the Earth Sciences, National Academy of Sciences, Washington, D.C., 1998), National Research Council (Washington, D.C., 1998), University of Nevada, Las Vegas (1998), American Association of Petroleum Geologists, Division of Environmental Geosciences (Taos, New Mexico, 1998), Nevada Mining Association Teachers Conferences (Las Vegas, 1998, and Ely, 1998), Reno High School (1998), Rotary Club (Sparks, 1998), Reno Gem and Mineral Society (1988);

University of Nevada, Las Vegas (1997), Florida Phosphate Conference, (Lakeland, 1997), University of Texas at Austin (3X), National Association of Geoscience Teachers, Far Western Section (1997), University of Nevada, Reno (1997), Lions Club, Reno (1997), Nevada Mining Association Teachers' Workshop, Las Vegas (1997), Oklahoma, Arizona, Nevada, and Minnesota Sections, American Institute of Professional Geologists (1997), Reno Gem and Mineral Society (1997), American Public Works Association (Nevada Chapter, 1997), Nevada Mining Association Teachers Conference (Las Vegas, 1997), Washoe County department heads (1997), Washoe County Commissioners (1997), University of Nevada, Reno (1997), Colorado School of Mines (1997), Minnesota Geological Survey (1997);

Nevada Commission on Mineral Resources (Las Vegas, 1996), Reno Gem and Mineral Society (1996), Nevada Environmental Conference (Reno, 1996), Western States Seismic Policy Council (Polson, Montana, 1996), Nevada Mining Association Teachers Conference (Las Vegas, 1996), American Geological Institute Workshop (Reno, 1996), University of Nevada, Reno (2X, 1996), National Research Council (Denver, 1996; Washington, D.C., 1996); Lion's Club (Reno, 1996; Sparks, 1996), Nevada Division of Environmental Protection (Carson City, 1996), American Chemical Society (Reno, 1996), Western Nevada Community College (Carson City, 1996), U.S. Geological Survey (Carson City, 1996; Denver, 1996);

Association of Engineering Geologists (Las Vegas, 1995), University of Nevada, Reno-Division of Continuing Education (1995), Society for Sedimentary Geology (Reno, 1995), American Geological Institute (Reno, 1995), Plumb Lane Lions Club (Reno, 1995), Geological Society of Nevada (1995), Arizona State University (2X, 1995), Western Nevada Community College (1995), University of Texas at Austin (1995), Rice University (2X, 1995), American Institute of Mining, Metallurgical, and Petroleum Engineers (Washington, D.C., 1995);

Geological Society of America (2X, Seattle, 1994), Potomac Geophysical Society (Arlington, Virginia, 1994), Association of American State Geologists (Maume Bay, Ohio, 1994), National Research Council (Washington, D.C., 1994), North Carolina Geological Survey (Raleigh, 1994), Auburn University (1994), Lehigh University (2X, 1994), Santa Fe Pacific Mining Company (Albuquerque, 1994), University of Nevada, Reno (1994);

Maine Geological Survey (1993); Women's Auxiliary of the American Institute of Mining, Metallurgical, and Petroleum Engineers (Bethesda, 1993); Geological Society of Washington (1993); Nebraska Geological Society (1993); University of Nebraska (1993); American Association of Petroleum Geologists (1993); National Research Council (Washington, D.C., 1993); American Geological Institute (Arlington, VA, 1993); Society of Economic Geologists (Denver, 1993); Association of Engineering Geologists (Las Vegas, 1993); Australasian Institute of Mining and Metallurgy (Mt. Isa, Australia, 1993); Freeport Indonesia (3X, Tembagapura, Irian Jaya, 1993);

California Division of Mines and Geology (1992); Sierra Pacific Power Company (2X, 1992); American Institute of Mining, Metallurgical, and Petroleum Engineers (Reno, 1992); American Institute of Professional Geologists (Stateline, NV, 1992); Nuclear Regulatory Commission (Las Vegas, 1992); American Lung Association (Reno, 1992); Reno Gem and Mineral Society (1992); Nevada Mining Association Minerals Education Conferences (Las Vegas, 1992, 1991; Elko, 1991; Winnemucca, 1992, 1990); Rotary Club (Sparks, Nevada, 1992; Incline Village, Nevada, 1992; Reno, 2X, 1991); Kiwanis Club (Reno, 2X, 1992; Stateline, Nevada, 1991), Sertoma Club (Reno, 1992); University of Nevada, Reno (2X, 1992; 2X, 1991; 2X, 1990; 1988), Physicians Hospital (Reno, 1992);

Nevada Division of Emergency Management (Carson City, 1991); Nevada Board of Health (Las Vegas, 1991); Underground Injection Practices Council (Reno, 1991); American Red Cross (Reno, 1991); Carson Board of Realtors (Carson City, 1991); Sierra Pacific (Reno, 1991); Caughlin Ranch Elementary School (3X, Reno, 1991); State GIS Conference (Las Vegas, 1991; Carson City, 1990);

Clark County Emergency Management Conference (Las Vegas, 1990); University of Nevada, Las Vegas (2X, 1990); U.S. Geological Survey Industrial Minerals Workshop (Salt Lake City, 2X, 1990); Swope Middle School Honors Science Class (Reno, 1990); U.S. Department of Housing and Urban Development (Las Vegas, 1990);

Washoe County Public Officials Conference on Emergency Management (Reno, 1989); Mount Rose Lion's Club (Reno, 1989); Nevada Section, American Institute of Professional Geologists (Reno, 1989); Nevada Mining Association (Elko, 1989); World Mining Congress (Reno, 1989); Montan-Universitaet Leoben (Austria, 1989); Universitaet Heidelberg (Federal Republic of Germany, 1989);

Northern Nevada Section of AIME (Reno, 1988); University of Nevada, Reno, Division of Continuing Education (Tonopah, 1988); University of Arizona (1988); Austin Geological Society (Austin, Texas, 1988, 1985);

Rice University (1987, 1986); Stephen F. Austin State University (1987); University of Texas at Austin (1987, 1986, 1985, 1984, 1983, 1982); University of New Orleans (1986); U.S. Geological Survey (Reston, Virginia, 1986); Texas Mining and Reclamation Association (Dallas, 1986; Corpus Christi, 1983); Sul Ross State University (1985); Clear Lake Gem and Mineral Society (Houston, 1985); Central Texas Mining Section of Society of Mining Engineers (San Antonio, 1985); Arizona Geological Society (Tucson, 1985); University of Texas at San Antonio (1981); Louisiana State University (1980); and Bucknell University (1977).

Extended broadcast interviews on a Reno television station (1998) on mining issues, on a Carson City radio talk show (1997) on earthquakes in Nevada, on Reno radio talk shows (2X, 1996) on Nevada Bureau of Mines and Geology Special Publication 20, Planning Scenario for a Major Earthquake in Western Nevada, and on a Carson City radio talk show (1992) on mining in Nevada.

Graduate courses taught at the University of Nevada, Reno (Ore Petrology, Geology 714, Fall 2008, co-taught with John McCormack) and the University of Texas at Austin (Geochemical Modeling, Winter/Spring, 1988, co-taught with Richard Kyle).

Short courses taught at University of Nevada, Reno: Volcanic Geology and Mineral Deposits (guest lecturer, September, 1992); Hydrothermal Alteration: Its Relationship to Mineralization (co-instructor, January 1991), Volcanic Geology and Mineral Deposits (co-instructor, September, 1989); Washoe County Teachers Association: Geological Issues Affecting Society (November, 1992); Rice University: Activity-Composition Relations of Rock-Forming Minerals, Recalculating Microprobe Analyses, and Geothermometry (March, 1986); Reflected Light Microscopy for Sedimentary, Metamorphic, and Igneous Petrologists (April, 1987).

Testimony regarding Nevada geology given before the Nevada Department of Taxation (March 14, 2008), in support of Assembly Bill 326, regarding unreinforced masonry buildings, before the Nevada Assembly Government Affairs Committee (April 6, 2007); in support of Assembly Bill No. 57, regarding earthquake preparedness, before the Nevada Assembly Government Affairs Committee (February 19, 2003); on the budget of the Department of Interior, Department of Energy, and U.S. Forest Service (April 7, 2001, on behalf of the Association of American State Geologists to the U.S. House of Representatives, Subcommittee on Interior and Related Agencies Appropriations); effect of federal mining fees and mining policy changes on state and local revenues and the mining industry (April 20, 2001, to U.S. House of Representatives, Subcommittee on Energy and Mineral resources); hardrock mining on federal lands (February 4, 2000, to State Land Use Planning Advisory Council; January 20, 2000, to Nevada Legislative Committee on Public Lands), administrative fee schedule for the Nevada Division of Minerals (July 6, 1999 to the Nevada Commission on Mineral Resources), the State Water Plan (April 2, 1999 to Nevada Senate, Committee on Natural Resources), science education standards (November 25, 1997 to Nevada Legislative Committee on Education), a bill regarding the definitions of geology and professional geologist (June 9, 1997 to Nevada Assembly, Committee on Natural Resources, Agriculture, and Mining), cooperative programs with the U.S. Geological Survey (March 4, 1997 to Nevada Senate, Finance Committee, and Nevada Assembly, Ways and Means Committee; March 2, 1995 to Nevada Senate, Finance Committee, and Nevada Assembly, Ways and Means Committee; February 4, 1993 to Nevada Senate, Finance Committee; February 1, 1993 to Nevada Assembly, Ways and Means Committee; March 4, 1991 to Nevada Assembly, Ways and Means Committee; January 31, 1991 to Nevada Senate, Finance Committee), the Mineral Resource Surveys Program of the U.S. Geological Survey (May 30, 1996 to U.S. House of Representatives, Subcommittee on Energy and Mineral Resources), radon hazards to a

staff hearing of the U.S. Senate Energy and Natural Resources Committee (April 29, 1994); groundwater issues (August 19, 1991 to U.S. Senate, Environment and Public Works Committee), geologic mapping (July 25, 1991 to U.S. House of Representatives, Committee on Interior and Insular Affairs, Subcommittee on Mining and Natural Resources), radon hazards (June 20, 1989, to U.S. House of Representatives, Committee on Interior and Insular Affairs, Subcommittee on Oversight and Investigations; April 17, 1989, to Nevada Assembly, Committee on Ways and Means), mine reclamation (April 6, 1989, to Nevada Senate, Committee on Taxation), and issues of mineral ownership and access to state-owned lands (July 11, 1986, to Texas House of Representatives Committee on Energy; March 11, 1987, to Texas Senate Natural Resources Committee; and March 24, 1987, to Texas House of Representatives Environmental Affairs Committee).

## OTHER PROFESSIONAL ACTIVITIES

Member, Education Committee, Nevada Mining Association, 1990-present.

Member, Board of Governors, National Mining Hall of Fame and Museum, 2016-present.

Member, Audit Committee, Geological Society of America, 2018-2021.

Member, Board of Directors, Retired Faculty Association, University of Nevada, Reno, 2019-present.

Instructor, Nevada Mining Association Teachers' Workshop, Reno, 17-19 June 2019.

Instructor, Nevada Mining Association Teachers' Workshop, Reno, 15-17 April 2019.

Field-Trip Co-Leader, Geological Society of Nevada, Stewart Indian School, Carson City, Nevada, 5 October 2018.

Co-Leader, Society of Economic Geologists field course on "Lithium and Gold Associated with Rhyolites,"  
Tonopah, Nevada, 18-21 September 2018.

Instructor, Nevada Mining Association Teachers' Workshop, Reno, 16-18 July 2018.

Instructor, Nevada Mining Association Teachers' Workshop, Las Vegas, 26-28 March 2018.

Member, Dryer Award Committee, Society for Mining, Metallurgy, and Exploration, 2016-2018 (Chair, 2018).

Chair, External Awards Committee, Geological Society of America, 2017-2018.

Past President, Geological Society of America, 2016-2017, including member of the Executive Committee, Council, Programmatic Overview Committee, Geology and Public Policy Committee, Public Service Award Committee, External Awards Committee, and Ad Hoc Committee on Organizational Structure.

Instructor, Nevada Mining Association Teachers' Workshop, Winnemucca, 10-12 July 2017.

Instructor, Nevada Mining Association Teachers' Workshop, Las Vegas, 10-12 April 2017.

Instructor, Nevada Mining Association Teachers' Workshop, Reno, 11-13 July 2016.

President, Geological Society of America, 2015-2016, including Chair of the Executive Committee, Council, and Programmatic Overview Committee, Member of the Geology and Public Policy Committee, Finance Committee, Ad Hoc Awards Committee, and Ad Hoc Communications Committee.

Past President, Geological Society of Nevada, 2015-2016, including Chair of the Nominations Committee and Member of the Board of Directors

Member, Ian Campbell Medal Committee, American Geosciences Institute, 2016.

Member, American Geosciences Institute Working Group to develop the document "Geoscience for America's Critical Needs", 2015.

Instructor, Nevada Mining Association Teachers' Workshops, Las Vegas, March 2015; Reno, July 2015.

Field Trip Leader, Nevada Mining Association Teachers' Workshop, Reno, July 2015.

President, Geological Society of Nevada, 2014-2015, including Chair of the Executive Committee and Member of the Board of Directors

Vice President/President-Elect, and Member of the Executive, Programmatic Overview, and Geology and Public Policy Committees, Geological Society of America, 2014-2015.

Member, Search Committee for President of the Geological Society of America Foundation, 2014.

Chair, Search Committee for Executive Director of the Geological Society of America, 2014.

Field Trip Co-Leader, Earth Science Week 2014: Nevada Bureau of Mines and Geology (October 11-12, 2014).

Field Trip Leader, Geological Society of Nevada Spring 2014 field trip (May 2-4, 2014).

Moderator, Briefings on nuclear energy: resources, geological hazards, and waste management, as part of a series of Congressional briefings on Energy from the Earth – practical geoscience for energy legislation, organized by the American Geological Institute (March 11, 2014).

Member, Executive Committee, Association of American State Geologists, 2014-2015.

Instructor, Nevada Mining Association Teachers' Workshops, Las Vegas, April 2013; Reno, July 2013; Las Vegas, April 2014, Reno, July 2014.

Panelist, State Geologist Panel, American Institute of Professional Geologists 50<sup>th</sup> Annual Conference, Broomfield, Colorado, 2013.

Field Trip Leader, Earth Science Week 2013: Nevada Bureau of Mines and Geology (October 12-13, 2013).

Field Trip Leader, Geological Society of Nevada Fall 2013 field trip (October 5-6, 2013).

Field Trip Leader, Great Basin Rendezvous, Lamoille Canyon, Elko County, Nevada (September 29, 2013).

Vice President, Geological Society of Nevada, 2013-2014.

Treasurer, Chair of the Finance Committee, and Member of the Executive, Investment, Audit, and Programmatic Overview Committees, Geological Society of America, 2009-2014.

Instructor, Nevada Mining Association Teachers' Workshops, Las Vegas, April 2013; Reno, July 2013.

Chair, Public Policy Committee, Nevada Mineral Exploration Coalition, 2012-2013.

Member, Board of Directors, Society for Mining, Metallurgy, and Exploration, 2011-2014; also Chair, Education and Professional Development Strategic Committee; Member, Nominating Strategic Committee, 2013-2014; Representative from the Society for Mining, Metallurgy, and Exploration to the American Geological Institute, 2008-2014.

Member, Education Committee, Nevada Mining Association, 2012-present.

Panelist, Mineral Resources, Association of American State Geologists, annual meeting, Deadwood, South Dakota, 2013.

Secretary, Nevada Earthquake Safety Council, 1995-2011.

Chair, Nevada Hazard Mitigation Planning Committee, State of Nevada, Division of Emergency Management, 2003-2012.

Chair, Nevada Section of the Mining and Metallurgical Society of America, 2008-2011.

Member, Plan Subcommittee, State Hazard Mitigation Planning Committee, 2003-2-012.

Chair, State Mapping Advisory Committee, 1995-2012.

Administrator, Mining Cooperative Fund, State of Nevada, 1988-1993, 1995-2012.

Chair, Honorary Members Committee, Association of American State Geologists, 2006-2011.

Chair, Mineral Resources Committee, Association of American State Geologists, 2008-2011, Member, 2006-2007.

Member, Hazards Committee, Association of American State Geologists, 2006-2012.

Instructor, Nevada Mining Association Teachers' Workshops, Las Vegas, April 19, 2011; Reno, July 18-20, 2011.

Co-Chair, Critical Elements for New Energy Technologies Study Committee, Panel on Public Affairs, American Physical Society, 2009-2011.

Field Trip Co-Leader, Earth Science Week Field Trips, October 15 & 16, 2011.

Panelist, National Peer Review Panel for the Federal Emergency Management Agency's Hazard Mitigation Assistance, Arlington, Virginia, January 19-25, 2011.

Interviewed by KRNVTV Channel 4 (Reno) on mineral exploration by Canadian and U.S. companies in Nevada, March 17, 2011.

Interviewed by KRXI TV Channel 11 (Reno) on earthquakes in Nevada, March 15, 2011.

Interviewed by the Las Vegas Review-Journal, on earthquakes at Wells, Nevada, and in Japan, March 14, 2011.

Interviewed by KTVN TV Channel 2 (Reno) on earthquakes and the recent NBMG report on the 2008 Wells, Nevada earthquake, March 14, 2011.

Interviewed by the Nevada Business Weekly on the outlook for mineral-resource development in Nevada, February 22, 2011.

Interviewed by KUNR (Public Radio, Reno) on potential for mineral-resource development in northeastern Elko County, Nevada, February 7 & 8, 2011.

Interviewed by the Elko Daily Free Press on the significance of a recent paper by John Muntean and others in the scientific literature, and on gold in the Pequop Mountains of northeastern Nevada, February 4, 2011.

Program Chair, Symposium on Minerals for a Green Society, Mining and Metallurgical Society of America (February 4, 2010, Washington, DC), 2009-2010.

Judge for the U.S. Bureau of Land Management's Reclamation and Sustainable Mineral Development Awards, 2007-2010.

Field Trip Co-Leader, Earth Science Week, October 16 & 17, 2010.

Member, Action Committee, Mining and Metallurgical Society of America, 2009-2010.

Instructor and Field Trip Co-Leader, Nevada Mining Association Teachers' Workshops, Las Vegas, March 29-31, 2010.

Instructor, Nevada Mining Association Teachers' Workshops, Reno, July 20, 2010.

Member, Corporate Guarantee Panel, Nevada Division of Environmental Protection, Winnemucca, June 21-22, 2010.

Interviewed by KOLO TV Channel 8 (Reno) on earthquake hazards, October 20, 2010.

Interviewed by KTVN TV Channel 2 (Reno) on the upcoming Earth Science Week, September 29, 2010.

Interviewed by the Wall Street Journal on global and domestic mineral resources, November 16, 2010.

Participant, Nevada Joint Military Affairs Committee, meeting in Reno on 28 September 2010.

Participant, U.S. Department of Energy meeting on nuclear fuels, Boston, Massachusetts area, October 12-14, 2010.

Member, Annual Program Committee, Geological Society of America, 2005-2009.

Chair, Intermountain West Regional Advisory Committee for the Advanced National Seismic System, 2008-2009.

Field Trip Co-Leader, Earth Science Week, October 10 & 11, 2009.

Substitute for the Administrator of the Nevada Division of Minerals on the Corporate Guarantee Panel, Nevada Division of Environmental Protection, Carson City, May 5, 2009.

Instructor and Field Trip Co-Leader, Nevada Mining Association Teachers' Workshops, Las Vegas, April 5-9, 2009.

Instructor and Field Trip Co-Leader, Nevada Mining Association Teachers' Workshops, Reno, July 13-16, 2009.

Special Awards Judge (for the American Geological Institute), Intel International Science and Engineering Fair, Reno, May 12-13, 2009.

Interviewed by Reno and Las Vegas media on earthquake hazards in Nevada (November 3 and 4, 2009) and by Jack Bowe for local TV show on radon in Nevada.

Reviewer, Institute of Medicine-National Research Council report on "Evaluating Occupational Health and Safety Research Programs: Framework and next Steps."

President, Association of American State Geologists Foundation, 2007-2008.

Past-President, Nevada Petroleum Society, 2007-2008; President, Nevada Petroleum Society, 2006-2007.

Secretary-Treasurer, Society for Mining, Metallurgy, and Exploration (SME) Foundation, 2004-2008; Trustee, 2001-2008.

Councilor, Geological Society of America, 2004-2008.

Chair, Audit Committee, Geological Society of America, 2007-2008; Member, 2005-2008.

Chair, Panel on Energy and Mineral Resources Position Statement, Geology and Public Policy Committee, Geological Society of America, 2006-2008.

Member, Working Group on Fugitive Mercury from Mining Operations, Nevada Division of Environmental Protection, 2007-08.

Member, Review Panel, U.S. Bureau of Land Management Reclamation and Sustainable Mineral Development Awards Program, 2007-2008.

Field Trip Co-Leader, Earth Science Week, October 18 & 19, 2008.

Interviewed by John Seelmeyer, Nevada Business Weekly, for article on CO<sub>2</sub> (January 31, 2008).

Interviewed on Living with Earth, through KUNR public radio, regarding gold in Nevada (February 11, 2008).

Interviewed by local TV stations during a press conference organized by the Nevada Seismological Laboratory, regarding earthquakes in Nevada (March 2008).

Interviewed by local TV stations during a press conference organized by Governor Jim Gibbons, regarding earthquakes in Nevada (April 29, 2008).

Interviewed by CNN regarding earthquakes in Nevada (April 30, 2008).

Interviewed by the Los Angeles Times regarding earthquakes in Nevada (April 30, 2008).

Interviewed by local TV Channel 8 regarding earthquakes in Nevada (April 30, 2008).

Interviewed by Winnemucca, Nevada radio station regarding earthquakes in Nevada (May 12, 2008).

Interviewed by local TV stations and print media during a press conference with Governor Jim Gibbons, regarding the Vigilant Guard earthquake response and recovery exercise (June 12, 2008).

Chair, Nominations Committee, Geological Society of America, 2007; member, 2006-2007.

Member, Geology and Public Policy Committee, Geological Society of America, 2004-2007.

Member, Executive Committee and Program Overview Committee, Geological Society of America, 2006-2007.

SME Foundation on the Mining and Metallurgical Society of America – SME Foundation Presidential Scholarship Committee, 2007.

Member, Federal Advisory Committee for the National Cooperative Geologic Mapping Program, U.S. Department of Interior, U.S. Geological Survey, 2003-2007.

Member, Scientific Earthquake Studies Advisory Committee, U.S. Department of Interior, U.S. Geological Survey, 2002-2007.

Field Trip Co-Leader, Earth Science Week, October 20-21, 2007.

Field Trip Co-Leader, Western States Seismic Policy Council, September 30, 2007.

Instructor and Field Trip Co-Leader, Nevada Mining Association Teachers' Workshop, Las Vegas, April 2007.

Instructor and Field Trip Co-Leader, Nevada Mining Association Teachers' Workshop, Elko, August 2007.

Member, Organizing Committee for the EarthScope National Meeting, Monterey, California, National Science Foundation, 2007 (and Co-Chair of session on "Building a Continent in 4D: Integrating Geology into EarthScope")

Review Coordinator, National Research Council, for report on "Review of NIOSH Mine Safety and Health Research Program," 2006-2007.

Member, Steering Committee for the Advanced National Seismic System, U.S. Geological Survey, 2004-2006.

Organizer, Nevada Petroleum Society field trip, July 18-24, 2006.

Organizer, Workshop on Needs for Geoscience in Southern Nevada, Las Vegas, November 13-14, 2006.

Instructor, Nevada Mining Association Teachers' Workshop, Las Vegas, April 10-12, 2006.

Instructor, Nevada Mining Association Teachers' Workshop, Carson City, August 8-10, 2006.

Instructor, Washoe County Emergency Operations Center earthquake exercise, July 13, 2006.

Field Trip Co-Leader, Earth Science Week, October 7 and 8, 2006.

Member, EarthScope Program Committee, National Science Foundation, 2006.

Review Coordinator, National Research Council, for report on "Mine Placement of Coal-Combustion Residues," 2005-2006.

Member, Advanced National Seismic System (ANSS) Intermountain West Regional Advisory Committee, 2006.

Organizer, American Institute of Professional Geologists Geoscience Career Night, University of Nevada, Reno, October 16, 2006.

Chair, College of Science Bylaws Committee (completed its business in 2006).

Master of Ceremonies and Judge, Student Presentation Night, Association of Engineering Geologists, Las Vegas chapter, February 7, 2006.

General Co-Chair, Geological Society of Nevada Symposium 2005, Window to the World, 2002-2005.

Field Trip Co-Leader, Earth Science Week, 2005.

Organizer, Career Day, Nevada Section of the American Institute of Professional Geologists, 2005.

Judge, Regional Science Fair, Reno, 2005.

Instructor, Nevada Mining Association Teachers' Workshop, Winnemucca, 2005.

Member, National Geoscience Data Repository Steering Committee, American Geological Institute, 2002-2005.

Member, EarthScope Science and Education Committee, National Science Foundation, 2002-2005.

Member, Hazards Committee, American Institute of Professional Geologists, 2005.

Keynote Speaker, Association of Engineering Geologists annual meeting, Las Vegas, 2005.

Assistant to the 2005 Annual Meeting Committee of the Association of Engineering Geologists (arranged for a letter of greeting from the Governor and for Nevada geology postcards to be used in advertising the meeting).

Member, Program Review Team for the Delaware Geological Survey, University of Delaware, 2004.

Field Trip Co-Leader, Earth Science Week, 2004.

Chair, Government Affairs, Mineral and Energy Resources Section, National Association of State Universities and Land Grant Colleges, 1999-2004.

Field Trip Leader, Winnemucca area, National Mineral Education Conference, 2004.

Facilitator, Basin and Range Province Seismic Hazard Summit, Reno, Nevada, 2004.

Co-Organizer, EarthScope Great Basin Conference, National Science Foundation, Tahoe City, California, 2004.

President, Society of Economic Geologists, 2003 (President-Elect, 2002; Past President, 2004).

Member, Investment Committee, Society for Mining, Metallurgy, and Exploration Foundation, 1999-2003.

Chair, Natural Hazard Policy Committee, Nominating Committee, and FEMA-AASG MOU Implementation Committee; and Member, Earth Science Education Committee, Energy and Mineral Policy Committee, and National Cooperative Geologic Mapping Program Reauthorization Committee, Association of American State Geologists, 2003.

Member, State Hazard Mitigation Plan Steering Committee, 2002-2003.

Chair, Budget Committee, 39<sup>th</sup> Forum on the Geology of Industrial Minerals, 2001-2003.

Instructor, Integrated Emergency Management Course for the City of Las Vegas, Federal Emergency Management Agency, Emmitsburg, Maryland, 2003.

Instructor, Nevada Mining Association Teachers Conferences, Las Vegas, 2003.

Field Trip Co-Leader, two Earth Science Week Field trips, 2003.

Field Trip Co-Leader, 39<sup>th</sup> Forum on the Geology of Industrial Minerals, 2003.

Field Trip Co-Leader, National Association of Geoscience Teachers Far Western Section, Fall Field Conference, 2003.

Field Trip Co-Leader, Buena Vista mine, for University of Nevada, Reno mineralogy classes, 2003.

Judge, California-Nevada Lions Student Speakers Program, 2003.

Citationist, John T. Galey, Sr. Memorial Public Service Award to Vicki J. Cowart, American Institute of Professional Geologists, 2003.

President and Chair, Board of Directors, Western States Seismic Policy Council, 1998-2002 (Member, 1995-2002).

Member, All Hazard Mitigation Advisory Committee, State of Nevada, 1998-2002.

Vice-Chair, Joint American Institute of Professional Geologists—Association of Engineering Geologists Annual Meeting Organizing Committee for 2002.

Field Trip Co-Leader, two Earth Science Week Field trips, 2002.

Field Trip Co-Leader, Nevada Mining Association Teachers Conference, Lamoille Canyon, 2002.

Field Trip Co-Leader, Buena Vista mine, for University of Nevada, Reno economic geology and mineralogy classes, 2002.

Instructor, Nevada Mining Association Teachers Conferences, Las Vegas and Elko, 2002.

Moderator, Symposium on Solving Real-World Problems with Geology and Geologic Maps, joint annual meeting of the American Institute of Professional Geologists—Association of Engineering Geologists, 2002.

Chair, FEMA-AASG MOU Implementation Committee and Nominating Committee; and Member, Earth Science Education Committee, Energy and Mineral Policy Committee, and National Cooperative Geologic Mapping Program Reauthorization Committee, Association of American State Geologists, 2002.

President, Association of American State Geologists, 2000-2001.

Vice-Chair, Committee on Technologies for the Mining Industries, National Research Council, 2000-2001.

Member, Board on Earth Sciences and Resources, National Research Council, 1999-2001.

Member, Economic Geology Publishing Company, 1996-2001.

Trustee, Society of Economic Geologists Foundation, 1997-2001.

Instructor, Nevada Mining Association Teachers Conferences, Las Vegas and Fallon, 2001.

Field Trip Co-Leader, Nevada Mining Association Teachers Conference, Fallon area, 2001.

Field Trip Co-Leader, two Earth Science Week Field trips, 2001.

Member, Peer-Review Panel for Statemap Awards, U.S. Geological Survey, National Cooperative Geological Mapping Program, 2001.

Member, Editorial Board, Ore Geology Reviews, 1991-2000.

Chair, Research Council, Society for Mining, Metallurgy, and Exploration, 1998-2000 (Vice-Chair, 1997).

Chair, Government Affairs Committee, Nevada Section, American Institute of Professional Geologists, 1999-2000.

Co-Chair, Mining Fraud Task Force, with the Nevada Attorney General and Administrator of the Nevada Division of Minerals, 2000.

Co-Chair, Session on Great Science in the Great Basin, Geological Society of America, 2000.

Member, Committee on Earth Resources, National Research Council, 1995-2000.

Judge, Lois Allen Elementary School Science Fair, 2000.

Citationist, Pick and Gavel Award to Congressman Jim Gibbons, Association of American State Geologists, 2000.

Moderator, Regulatory Issues Session, Workshop on the Characterization, Modeling, Monitoring, and Remediation of Pit Lakes, Reno, 2000.

Co-Chair, Technical Program Committee for the 2000 Symposium, (and co-editor of the proceedings volumes), Geological Society of Nevada, 1996-2000.

Instructor, Federal Emergency Management Agency, Integrated Emergency Management Course for the State of Nevada, June 5-9, 2000.

Instructor, Nevada Mining Association Teachers Conferences, Las Vegas and Carson City, 2000.

Field Trip Co-Leader, Nevada Mining Association Teachers Conference, Carson City to Rawhide, 2000.

Field Trip Co-Leader, Geological Society of America Geoscience Day, Traner Middle School, Reno, 2000.

Member, Committee on Hardrock Mining on Federal Lands, National Research Council, 1999.

Member, Task Force to Review the Federal-State Cooperative Water Program of the U.S. Geological Survey, 1998-1999.

Judge, Lois Allen Elementary School Science Fair, 1999.

Judge, Northern Nevada Regional Science Fair, 1999.

Co-Leader, two all-day Earth Science Week field trips, 1999.

Instructor, Nevada Mining Association Teachers Conference, Winnemucca, 1999.

Member, Mineral and Energy Resources Section, National Association of State Universities and Land Grant Colleges, 1997-2000.

Member, Ad Hoc Committee on Professional Ethics, Society of Economic Geologists, 1999.

Member, Liaison Committee, Executive Committee, and Energy and Minerals Policy Committee, Association of American State Geologists, 1995-2000.

Representative to the Member Society Council of the American Geological Institute for the Association of American State Geologists, 1997-2000.

Member, Nominating Committee, American Institute of Professional Geologists, 1999, Chair, 1998.

Co-convener, Topical session on geoscience ethics guidelines, sponsored by the American Institute of Professional Geologists, Geological Society of America annual meeting, 1999.

Session chair, Area Reports, Northwest Mining Association annual meeting, 1999.

Member, Science Standards Task Force, Nevada Department of Education, 1998.

Field Trip Leader, Earth Science Week, 1998.

Member, Organizing Committee, Conference on Meeting Societal Resource and Environmental Requirements for the 21<sup>st</sup> Century, American Association of Petroleum Geologists, Taos, New Mexico, 1998.

Judge, Lois Allen Elementary School Science Fair, 1998.

Instructor, Emergency Management Institute, Federal Emergency Management Agency, Emmitsburg, Maryland, May 17-22, 1998, for Washoe County, Nevada.

Instructor, Nevada Mining Association Teachers Conferences, Las Vegas, 1998, and Ely, 1998.

Member, Higher Education Geoscience Advisory Board, American Geological Institute, 1993-1998.

Member, Fiftieth Anniversary Committee, American Geological Institute, 1996-1998.

Master of Ceremonies, Professional Opportunities for Geoscientists, Seminar by the Nevada Section of the American Institute of Professional Geologists, 1997.

Co-convener, Conference on Ethics in the Geosciences, sponsored by the Geological Society of America, American Association of Petroleum Geologists, American Institute of Professional Geologists, U.S. Geological Survey, and National Science Foundation, Welches, Oregon, July 16-21, 1997.

Moderator, Basin and Range Province Seismic Hazards Summit, Western States Seismic Policy Council, 1997.

President, American Institute of Professional Geologists, 1997 (President-Elect, 1996).

Judge, Lois Allen Elementary School Science Fair, 1997.

Chair, Ian Campbell Award Committee, American Geological Institute, 1997.

Chair, Ad Hoc Committee on the AGI Foundation, American Geological Institute, 1997.

Member, Annual Program Committee, Geological Society of America, 1996-1999.

Member, Peer Review Panel for Statemap Component of the National Cooperative Geologic Mapping Program, 1995-1997.

Panelist, Strategic Science Team, Geologic Division, U.S. Geological Survey, 1997.

Reviewer, Nevada State Science Education Framework Draft Standards, 1997.

Member, Panel to Review the Mineral Resource Surveys Program Plan of the U.S. Geological Survey, National Research Council, 1995-1996.

Member, Editorial Board, Geotimes, 1994-1996.

Member, Government Affairs Program Advisory Committee, American Geological Institute, 1993-1996.

Leader, Field trip on faulting in the Reno area, American Geological Institute Workshop, 1996.

Assistant, Nevada Mining Association, Teachers Conference, Reno, 1996.

Moderator, Candidates' Forum for Nevada's Second Congressional Seat, Nevada Section, American Institute of Professional Geologists, 1996.

Session Chair, Seismic Hazards in the Las Vegas Region, symposium sponsored by the Nevada Earthquake Safety Council and others, 1996.

Chair, Exploration Strategies Session, National Mining Association, MINExpo International '96, 1996.

Co-organizer, Workshop on Domestic Nonfuel Mineral Statistics, Association of American State Geologists and U.S. Geological Survey, Washington, D.C., 1996.

Invited Participant, Workshop on Scientific Opportunities for the Merger of the National Biological Service and the U.S. Geological Survey, sponsored by the Geological Society of America and the Ecological Society of America, Silverdale, Washington, 1996.

President-Elect, Association of American State Geologists, 1999-2000.

Vice President, Association of American State Geologists, 1998-1999.

Treasurer, Association of American State Geologists, 1996-1998.

Secretary-Treasurer, Association of American State Geologists, 1995-1996.

Member, Digital Mapping and Standards Committee and Environmental Affairs Committee, Association of American State Geologists, 1995-1996.

Member, Committee on Accreditation of Undergraduate Geology Departments, American Geological Institute, 1993-1995.

Member, Strategic Planning Committee, American Geological Institute, 1995.

Member, National Geoscience Data Repository Steering Committee, American Geological Institute, 1993-1995.

Host, Annual meeting of the Association of American State Geologists, 1995.

Member, Program Committee for Chapman Conference on Undergraduate Geoscience Education, American Geophysical Union, 1994.

Judge, Washington, D.C. Secondary School Science Fair, 1994.

Judge, Technical Session, Society for Sedimentary Geology, Annual Meeting, New Orleans, 1993.

President, Nevada Section, American Institute of Professional Geologists, 1992, President-Elect, 1991.

Chair, Technical Sessions Committee, American Institute of Professional Geologists 1992 Annual Meeting, 1989-1992.

Chair, Lindgren Award Committee, Society of Economic Geologists, 1992-1993, Member, 1990-1993.

Chair, Preliminary Seismic Safety Council for Nevada, 1992.

Member, Committee on Committees, Society of Economic Geologists, 1992-1993.

Member, U.S. National Committee on Geology, National Research Council, 1990-1993.

Chair, Nuclear Waste Committee, Association of American State Geologists, 1989-1993 (member, 1988).

Member, Radon Review Committee, Association of American State Geologists, 1989-1993

Member, Federal Lands Committee, Association of American State Geologists, 1989-1993

Member, Liaison Committee, Association of American State Geologists, 1992.

Member, Mineral Policy Committee, Association of American State Geologists, 1991-1993.

Member, National Geologic Mapping Implementation Committee, Association of American State Geologists, 1989-1992.

Member, Technical Advisory Board for Nevada Division of Environmental Protection and U.S. Environmental Protection Agency, Carson River Superfund Site, 1991-1993.

Member, United States Geological Survey Reno Field Office Site Advisory Board, 1988-1993

Member, Liaison Committee, U.S. Geological Survey's Nevada Basin and Range National Water-Quality Assessment, 1991-1993.

Field Trip Leader, Reno Area - Northern Walker Lane Mineralization and Structure, Geological Society of Nevada, 1992.

Moderator, Symposium on Structure, Tectonics, and Mineralization of the Walker Lane, Geological Society of Nevada, 1992.

Field Trip Co-Leader, Evidence for earthquakes in the Las Vegas area, 1992.

Chair, Ballot Committee, Nevada Petroleum Society, 1989-1992.

Chair, Nevada State Mapping Advisory Committee, 1988-1993.

Administrator, Mining Cooperative Fund, State of Nevada, 1988-1993.

Technical Advisor, Committee on Mining, Milling and New Development (established by the Nevada Department of Minerals), 1989-1993.

Judge, Regional Science Fair, Reno, 1992.

Member, Professional Papers Committee, Nevada Water Resources Association 1993 meeting, 1992-1993.

Member, Ad Hoc Committee on Assistance to State Geological Surveys, American Institute of Professional Geologists, 1991.

Moderator, Exploration Outlook 1992, meeting of the Nevada Section, American Institute of Professional Geologists, 1991.

Session Chair, 15th International Geochemical Exploration Symposium, Reno, 1991.

Moderator, Panel Discussion on Water Conservation, Nevada Water Resources Association Annual Meeting, 1991.

Moderator, Forum on Registration of Geologists in Nevada, 1991.

Organizer and Host, meeting of the Western States Mapping Advisory Committee Chairmen, Crystal Bay, Nevada, 1991.

Member, Organizing Committee, Nevada Water Resources Association 1991 Annual Meeting, 1990-91.

Session Chair, Geological Society of Nevada Symposium, Reno, 1990.

Session Convener, U.S. Geological Survey workshop on industrial minerals, Salt Lake City, 1990.

Member, Program Policy Committee, Society of Economic Geologists, 1987-1988.

Field Trip Co-Leader, Volcanic Rocks of the Fort Davis Area, Davis Mountains: Permian Basin Section, Society of Economic Paleontologists and Mineralogists, 1987.

Field Trip Co-Leader, Igneous Geology of Trans-Pecos Texas: Geological Society of America annual meeting, 1986.

Chair, Central Texas Mining Section of the Society of Mining Engineers, 1987; Vice-Chairman, 1986, Board of Directors, 1988.

Field Trip Leader, Llano Area Granite and Graphite: Central Texas Mining Section of the Society of Mining Engineers, 1986.

Member, Energy and Mineral Resources Graduate Studies Committee, The University of Texas at Austin, 1985-1986.

Member, Austin Geological Society Nomination Committee, 1986.

Field Trip Chair, Gulf Coast Association of Geological Societies annual meeting, 1985.

Field Trip Co-Leader, Geology of the Sierra Diablo and southern Hueco Mountains: Permian Basin Section, Society of Economic Paleontologists and Mineralogists field conference, 1983.

Member, Thesis committees of one Ph.D. candidate and three master's candidates in the Department of Geological Sciences at The University of Texas at Austin and one master's candidate in the Geology Department at Baylor University.

## RECENT UNIVERSITY OF NEVADA, RENO COMMITTEES AND SERVICE

Co-Advisor (with Prof. Tommy Thompson) of M.S. candidate (Reid Yano) in the Department of Geological Sciences and Engineering, working on a project investigating trace elements in ore deposits, with partial support and collaboration from the U.S. Geological Survey (Drs. Poul Emsbo and Alan Koenig), 2010-2012.

Member, M.S. thesis committee of M.S. candidate (Claude Morissette) in the Department of Geological Sciences and Engineering, working on the mineralogy of lithium-rich clay deposits under the supervision of Dr. Lisa Stillings, 2010-2012.

Guest Lecturer and Lab Instructor, Reflected light petrography, Department of Geological Sciences and Engineering, January 25, January 26, February 1, and February 2, 2011.

Member, M.S. thesis committees of three students in the Department of Geological Sciences and Engineering (Zac Jarvie, who completed his thesis in 2009, Crystal Robinson, who completed her thesis in 2010, and Ben Schumer).

Panelist for the presentations made by student groups in an undergraduate class on Integrated Marketing and Communication, 14 January 2010.

Assistant (with considerable help from NBMG employees David Davis and Ron Hess), Issues concerning mining claims near Tonopah, Vice President for Administration and Finance and General Counsel, 2009.

Assistant, Project on University lands, Director of Governmental Relations, 2008.

Assistant, Vice President of Development and Alumni Relations, University of Nevada, Reno Foundation, 2008.

Member, President's Research Advisory Committee, 2007-2008.

Assistant, Mackay Ad Hoc Committee for the Endowed Chair in Economic Geology, 2004-2005.

Member, Executive Committee, Ralph Roberts Center for Research in Economic Geology, 1996-2012.

Organizer, Mackay Seminars in Economic Geology, 2005-2008.

Member, Task Force on Conflict of Interest Policy, Faculty Senate, 2007.

Chair, Mackay Ad Hoc Committee on a Strategic Plan for Economic Geology, 2007.  
Member, Search Committee, Newmont Mineral Process Engineering Professorship, 2004-2005.  
Chair, Bylaws Committee, College of Science, 2003-2006.  
Member, University of Nevada, Reno Appeals Committee, 2005-2006.  
Member, Search Committee, Director of Development for the College of Science, 2004-2005.

I supervised two graduate students who completed a master's thesis at the University of Nevada, Reno:

Yano, Reid I., 2011, Trace element distribution in chalcopyrite-bearing porphyry and skarn deposits: [M.S.]: Univ. Nevada, Reno, 93 p. (primary advisor, Tommy Thompson)

Phinisey, Jeffrey David, 1995, Petrography, alteration, and mineralization of igneous dikes of the Jerritt Canyon district, Elko County, Nevada [M.S.]: Univ. Nevada, Reno, 173 p.

## COMMUNITY SERVICE

Volunteer as Official for USA Track and Field (USATF), officiating mostly race walking and track events (2004 to present); master-level certification (2012 to present) as race walking judge and official and as umpire (2016 to present); national-level certification as official for long jump and triple jump (2016 to present); association-level (Pacific Association) certification as a referee; officiated over 400 track meets, race walking events, and cross-country meets. Chair of the Race Walking Committee and member of the Board of Athletics of the USATF Pacific Association (2013-present) and delegate to the USATF annual meetings (2012-present).

Volunteer with (1983 to 1993) and contributor to the American Red Cross (1983 to present). Instructor in First Aid and Cardiopulmonary Resuscitation (1988 to 1993), member of Health Services Committee (1989 to 1993), Disaster Services Committee (1991), and Board of Directors (1991 to 1993), Sierra Nevada Chapter of the American Red Cross. Volunteer activities with the Centex Chapter of the American Red Cross included duties as Instructor in Advanced First Aid and CPR (1983 to 1988), Coordinator of the First Aid Service Team (1984 to 1988), and Member of the Safety Services Committee (1986 to 1987) and Disaster Services Committee (1987).

Volunteer for Habitat for Humanity, charity auction (donated a day in the field for a family, collecting rocks, minerals, and fossils, 1998).

Volunteer with the Nevada Bureau of Mines and Geology in leading field trips during Earth Science Week (1998-2015).

November 2019