

Louise Pellerin, Ph.D.

Green Engineering, Inc.
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Education:

University of Utah, Salt Lake City, advisor: Gerald W. Hohmann (deceased)
Ph.D. in electromagnetic geophysics, 1992
M.S. in electromagnetic geophysics, 1988
University of California, Berkeley
A.B. in geophysics with emphasis in earthquake seismology, 1978

Professional Experience:

5/03 to present Green Engineering, Inc., Anchorage, AK and Berkeley, CA
5/01 to 5/03 Consulting Geophysicist, Berkeley, CA
3/00 to 5/01 Visiting professor, Aarhus University, Dept. of Earth Science, Geophysical Laboratory, Aarhus, Denmark
2/00 to 2/02 Senior scientist, University of Utah, Energy and Geoscience Institute, Salt Lake City, UT
1/99 to 1/00 Geophysicist, GSY-USA, Inc., San Francisco, CA
11/97 to 1/98 Special assignment with the University of Utah to the South Pole, Antarctica
1/96 to 9/98 Staff Geological Scientist, Lawrence Berkeley National Laboratory, Berkeley, CA
5/92 to 1/96 Research Geophysicist, US Geological Survey, Denver, Branch of Geophysics, Colorado, Golden, CO
Summer 1989 Visiting scientist at the San Diego Supercomputer Center Advanced Scientific Visualization Laboratory, San Diego, CA
Spring 1989 Teaching Assistant at the University of Utah, Salt Lake City, UT *Received the Geology and Geophysics Department's Best Teaching Assistant award.*
Summer 1988 Visiting scientist, Ministry of Mineral Resources, Institute of Geophysical and Geochemical Exploration, Langfang, Hebei, PR China
9/85 to 5/92 Research Assistant, Consortium for Electromagnetic Modeling and Inversion, Dept. of Geology & Geophysics, University of Utah, SLC, UT
1982 to 1985 Consulting Geophysicist, Fairbanks, AK
3/81 to 12/81 Project Geophysicist, Resource Associates of Alaska, Fairbanks, AK
2/80 to 2/81 Staff Geophysicist, Woodward-Clyde Consultants, San Francisco, CA
9/79 to 12/79 Lecturer, Dept. of Mathematics, Univ. of Alaska, Fairbanks, AK
Summer 1979 Field Geophysicist, WGM Consultants, Anchorage, AK
9/78 to 6/79 Teaching Assistant, Dept. of Physics, Univ. of Alaska, Fairbanks, AK
9/78 to 6/79 Research Assistant, Geophysical Institute, Univ. of Alaska, Fairbanks, AK
Summer 1978 Field Geophysicist, The Anaconda Company, Anchorage, AK
10/77 to 6/78 Research Assistant, Lawrence Berkeley Laboratory, Berkeley, CA
Summer 1977 Geological Field Assistant, Cities Service Minerals, Anchorage, AK

Significant Projects in past 10 years:

1993-1996 – Principal Investigator of the Very Early Time Domain Electromagnetics (VETEM) project. An electromagnetic system operating at very early times gives information on the dielectric permittivity and electrical conductivity properties of structures in the shallow subsurface. The VETEM project developed both hardware and software for imaging the shallow subsurface as related to environmental and engineering problems.

1995-1996 – Principal Investigator of the Electromagnetic Integrated Demonstration (EMID). An extensive baseline study of twelve electrical and electromagnetic surveys, acquired at the Idaho National Engineering Laboratory Cold Test Pit, was used to evaluate instrumentation and interpretational software from 2 Universities, the US Geological Survey and 8 geophysical instrument companies.

Austral summer 1997-98 – Participant of the South Pole MT transect. As part of a team from the Univ. of Utah, we completed a 60 km magnetotelluric transect centered at the South Pole. The purpose of the survey was to determine the structure of the crust under the polar ice cap and the nature of the magnetospheric currents.

1996-1999 – Principal Investigator of the subsurface barrier geophysical verification project. Subsurface contamination can be successfully isolated from the groundwater through the use of subsurface barriers. Electrical Resistivity and Ground Penetrating Radar were used successfully to verify the integrity of two barriers: a viscous liquid barrier installed at the Brookhaven National Lab, and a thin diaphragm wall barrier at the Dover Air Force Base, National Test Site.

2000–2001 Visiting professor with HydroGeophysics Group, Dept of Earth Sciences, Aarhus University, Denmark. Water is the most important resource in Denmark, and my research involves several aspects of hydrological investigations. In particular, the development of new methods for aquifer and contamination characterization, and determination of aquifer protection and the consequences. In addition to research, my duties include consulting with graduate students, and communicating the group's research to the international community.

2001–2002 Principal scientist of the University of Wisconsin Earth-Current Measurement Experiment. As part of a larger study investigating possible health effects of earth currents on bovines, electric and magnetic field measurements were made on four Wisconsin dairy farms. Naturally occurring currents were measured along with those from either the power utilities or farm equipment through a series of load box tests performed by the local utility company under different isolation/bonding conditions and cycling of farm equipment.

2002-2003 Consultant overseeing Alaska magnetotelluric transects. Working with geologists and potential field geophysicist from the US Geological Survey and Bureau of Land Management we ascertained the structure of the earth and the economic mineral potential of regions in the Talkeetna and Delta Mts.

Bibliography:

1. Sternberg, B.K., Washburne, J.C., and Pellerin, L., 1988, Correction for the Static Shift in Magnetotellurics Using Transient Electromagnetic Soundings: *Geophysics*, 53, 11, p. 1459-1468.
2. Pellerin, L., and Hohmann, G.W., 1990, Transient Electromagnetic Inversion: A Remedy for Magnetotelluric Static Shifts: *Geophysics*, 55, 9, p. 1242-1250.
3. Pellerin, L., and Hohmann, G.W., 1993, A parametric study of the vertical electric source: *Geophysics*, 60, 1, p.43-52.
4. Pellerin, L., Johnston, J.M., and Hohmann, G.W., 1996, A numerical evaluation of electromagnetic methods in geothermal exploration: *Geophysics*, 61, 1, p. 121-137.

5. Pellerin, L., and Alumbaugh, D.L., 1997 Tools for Electromagnetic Investigation of the Shallow Subsurface; invited paper to The Leading Edge, November 1997
6. Pellerin, L., and Alumbaugh, D.L., 1997 Geophysical Tools for Electromagnetic Characterization of the Buried Waste: invited paper to Butsuri-Tansa vol. 50, No. 6, p. 656-663.
7. Sørensen, K. I., Effersø, F., Auken, E., and Pellerin, L., 2002, A method to estimate hydraulic conductivity while drilling: *Journal of Hydrology*, 260, 15-29.
8. Auken, E., Nebel, L., Sørensen, K. I., Breiner, M., Pellerin, L., and Christensen, N. B., 2002, EMMA - A Geophysical Training and Education Tool for Electromagnetic Modeling and Analysis: *Journal of Environmental & Engineering Geophysics*, 7, 57-68.
9. Pellerin, L. 2002, Applications of Electrical and Electromagnetic Methods for Environmental and Geotechnical Investigations: *Surveys in Geophysics*, 23, 101-132.
10. Donald B. Hoover D.B., And Pellerin, L., 2002, Geophysical Map Interpretation on the PC -- A Self-Paced Course Using USGS Potential-Field and Image-Processing Software and Data for the Getchell Gold Trend Area, Osgood Mountains, Nevada, Textbook, Chapter 2, Principles of Electrical Methods: U. S. Geological Survey Digital Data Series DDS-51.
11. Pellerin, L. and Labson, V.F., 2003, An empirical approach to inversion of an unconventional helicopter electromagnetic dataset: *Journal of Applied Geophysics*, 53, 1 pp 49 - 61.
12. Sørensen, K. I., Auken, E., Christensen, N. B., and Pellerin, L., 2004, An Integrated Approach for Hydrogeophysical Investigations: New Technologies and a Case History in Near-surface Geophysics Volume II: Application and case histories: SEG, accepted for publication.
13. Wannamaker, P.E., Stodt, J.A., Pellerin, L., Olsen, S.L. and Hall, D.B., 2004, Structure and Thermal Regime Beneath South Pole Region, East Antarctica, from Magnetotelluric Measurements: *Geophys. J. Int.* 156, 1-19.
14. Fisher, M.A., Nokleberg, W.J., Ratchkovski, N.A., Pellerin, L., Glen, J.M.G., Brocher, T.M., and Booker, J., 2004, Geophysical investigation of the Denali fault and Alaska Range orogen within the aftershock zone of the October-November 2002, M7.9 Denali fault earthquake: *Geology*, 32, 3, pg 269-272.
15. Pellerin, L., Alumbaugh, D., Reinmann, D., and Thompson, P., 2004, Results of the University of Wisconsin stray voltage earth-current measurement experiment; Tentatively accepted for publication in *The Bulletin of the American Society of Agricultural Engineers*, in press.
16. Pellerin, L. and Wannamaker, P.E., 2003, Multi-dimensional Modeling of the Electrical Conductivity of the Earth with Application to Near-surface Investigations: Special Issue of *Computers and Electronics in Agriculture*, invited, accepted for publications.
17. Fisher, M.A., Ratchkovski, N.A., Nokleberg, W.J., Pellerin, L., and Glen, J.M.G., 2004, Geophysical Data Reveal the Crustal Structure of the Alaska Range Orogen Within the Aftershock Zone of the M=7.9 Denali Fault Earthquake: BSSA, submitted.

Abstracts for Oral or Poster Presentation:

1. Pellerin, L., and Hohmann, G.W., 1987, Use of transient electromagnetic soundings to correct the magnetotelluric static shift: American Geophysical Union annual meeting, San Francisco, CA.
2. Torres-Verdin, C., and Pellerin, L., 1989, Simulation of EMAP responses in three-dimensional environments (expanded abstract): Society of Exploration Geophysics. 59th Ann. Internat. Mtg., Dallas, TX.
3. Pellerin, L., Newman, G.A., Hohmann, G.W., 1991, Electromagnetic Response of a Three-dimensional Earth due to a Vertical Electric Source (expanded abstract): Society of Exploration Geophysics 61st Ann. Internat. Mtg., Houston, TX.
4. Pellerin, L., Johnston, J.M., and Hohmann, G.W., 1992, Evaluation of Electromagnetic Techniques in Geothermal Exploration (expanded abstract): Society of Exploration Geophysics 62nd Annual International Meeting, New Orleans, LA.
5. Pellerin, L., Johnston, J.M., and Hohmann, G.W., 1993, Three-dimensional inversion of electromagnetic data (expanded abstract): Society of Exploration Geophysics 63rd Annual International Meeting, Washington, DC.

6. Pellerin, L., Labson, V.F., and Anderson, W.L., 1993, Interpretation of a low-level helicopter electromagnetic survey flown over the Idaho National Engineering Laboratory: International Workshop on Airborne Electromagnetic Methods, University of Arizona, Tucson, AZ.
7. Labson, V.F., Anderson, W.L., Wright, D.L., Pellerin, L., and Becker, A., 1993, Desired characteristics of a very early time helicopter electromagnetic system (VETHEM): International Workshop on Airborne Electromagnetic Methods, University of Arizona, Tucson, AZ.
8. Nyquist, J.E., Doll, W.E., Holladay, J.S., Pellerin, L., and Labson, V.F., 1993, Environmental Characterization of the Oak Ridge Reservation Using Helicopter Geophysics: International Workshop on Airborne Electromagnetic Methods, University of Arizona, Tucson, AZ.
9. Wannamaker, P.E., Pellerin, L., Tripp, A.C., and Xiong, Z., 1993, Three-dimensional interpretation of short-offset loop electromagnetic data: International Workshop on Airborne Electromagnetic Methods, University of Arizona, Tucson, AZ.
10. Doll, W.E., Nyquist, J.E., Holladay, J.S., Labson, V.F., and Pellerin, L., 1993, Preliminary Results of a Helicopter Electromagnetic and Magnetic Survey of the Oak Ridge Reservation Tennessee for Environmental and Geologic Site Characterization: Symposium for the Application of Geophysics to Environmental and Engineering Problems, San Diego, CA, pg 281.
11. Pellerin, L., Labson, V. F., Pfeifer, M. C., and others, 1994, VETEM - a very early time electromagnetic system: Symposium for the Application of Geophysics to Environmental and Engineering Problems (SAGEEP), Boston, MA
12. Pellerin, L., Labson, V. F., Pfeifer, M. C., and others, 1995, VETEM - a very early time electromagnetic system - the first year: Symposium for the Application of Geophysics to Environmental and Engineering Problems (SAGEEP), Orlando, FL
13. Wright, D.L., Grover, T.P., Labson, V.F., Pellerin, L., Ellefsen, K.J., and Bradley, J.A., 1995, Tomography between Wells a Transient Dielectric Logging Tool, and the Very Early Time Electromagnetic (VETEM) System: Symposium for the Application of Geophysics to Environmental and Engineering Problems, Orlando, FL, pg 501.
14. Pellerin, L., Labson, V.F., Pfeifer, M.C., and others, 1996, VETEM - a very early time electromagnetic system - year two: Symposium for the Application of Geophysics to Environmental and Engineering Problems (SAGEEP), Keystone, CO
15. Wright D.L., Grover T.P., Labson V.F., and Pellerin, L., 1996, The Very Early Time Electromagnetic (VETEM) System: First Field Test Results: Symposium for the Application of Geophysics to Environmental and Engineering Problems, Keystone, CO, pg 81.
16. Xie, G., Lee, K. H., Li, J., Pellerin, L. and Zuo, D., 1996, 3-D fast finite element born accelerating electromagnetic imaging using integral equation: Society Of Exploration Geophysicists 66th Annual International Meeting, 261-264.
17. Pellerin, L., Alumbaugh, D.L., and Pfeifer, M.C., 1997, The Electromagnetic Integrated Demonstration at the INEL Cold Test Pit: Symposium for the Application of Geophysics to Environmental and Engineering Problems (SAGEEP), Reno, NV
18. Pellerin, L., Alumbaugh, D.L., and Pfeifer, M.C., 1997 An Evaluation of Electromagnetic Methods for Waste Site Assessment: Engineering and Environmental Geophysical Society - European Section Annual Meeting, Aarhus, Denmark
19. Pellerin, L., Gilbert, F., Hubbard, S., Peterson, J., Daily, W and Ramirez, A., 1998, Geophysical verification of Subsurface Barrier: Symposium for the Application of Geophysics to Environmental and Engineering Problems (SAGEEP), Chicago, IL.
20. Haldorsen, J. B., Gilbert, F., Miller, D. E. and Pellerin, L., 1998, Verification of Subsurface Pollution Barriers Using Ground-Penetrating Radar: 61st Meeting European Association Of Geophysical Exploration, Session: 05-16.
21. Wannamaker, P.E., Stodt, J.A., and Pellerin, L., 1998; Crustal Structure Beneath South Pole Region, East Antarctica, from MT Measurements: 14th International Workshop on Electromagnetic Induction in the Earth, Sinia, Romania.
22. Pellerin, L., Gilbert, F., Hubbard, S., J., Daily, W and Ramirez, A., 1998, Geophysical verification of an Engineered Barrier: Engineering and Environmental Geophysical Society - European Section Annual Meeting, Barcelona, Spain.

23. Pellerin, L. 2000, Applications of Electrical and Electromagnetic Methods for Environmental and Geotechnical Investigations in the Year 2000: 14th International Workshop on Electromagnetic Induction in the Earth, Cabo Frio, Brazil.
24. Pellerin, L. and Labson, V.F., 2000, An Innovative Approach to a Challenging HEM survey: Engineering and Environmental Geophysical Society - European Section Annual Meeting, Bochum, Germany.
25. Sørensen, K. I., Effersø, F., Auken, E., and Pellerin, L., 2002, A method to estimate hydraulic conductivity while drilling: Engineering and Environmental Geophysical Society - European Section Annual Meeting, Birmingham, UK.
26. Auken, E., Breiner, M., Nebel, L., Pellerin, L., Thomsen, P., and Sørensen, K. I., 2001, EMMA - Electromagnetic modelling and analysis: Engineering and Environmental Geophysical Society - European Section Annual Meeting, Birmingham, UK.
27. Auken, E., Pellerin, L., and Sørensen, K., 2001, Mutually Constrained Inversion (MCI) of Electrical and Electromagnetic Data: Annual Meeting of the Society of Exploration Geophysicists, San Antonio, TX, USA
28. Pellerin, L. and Sampson, J., 2002, A Magnetotelluric Transect across the Talkeetna Mountains, Alaska: Geological Society of American, Cordilleran Section - 98th Annual Meeting, Corvallis, OR
29. Pellerin, L., Glen, J., Sanger, E., Sampson, J., and Schmidt, J., 2002, Geophysical Investigations of The Talkeetna Mountains, Alaska: 15th International Workshop on Electromagnetic Induction in the Earth, Santa Fe, NM.
30. Pellerin, L., Alumbaugh, D.L., and Cuevas, N., 2002, Analysis of Remote Reference MT processing in a Culturally Noisy Environment: 15th International Workshop on Electromagnetic Induction in the Earth, Santa Fe, NM.
31. Glen, J.M.G., Pellerin, L., Schmidt, J.M., Sampson, J.A., Morin, R. and Sanger, E., 2002, Geophysical investigations related to the mineral potential of southcentral Alaska: A summary of results from the Talkeetna Mountains Transect project: Alaska Miner's Association Annual Meeting, Anchorage, AK.
32. Schmidt, J.M., Pellerin, L., Glen, J.M.G., Bittenbender, P., Ellis, W.T., and Sampson, J., 2002, What lies beneath the Amphitheatre Mountains?: Geophysical investigations shed light on the structural setting and PGE-Ni-Cu potential of the Nikolai magmatic system: Northwest Miners Association Annual Meeting, Spokane, WA
33. Sørensen, K. I., Pellerin, L., and Auken, E., 2003, An auger tool to estimate hydraulic conductivity using a resistivity analogy: In Proceedings for the Australian Society of Exploration Geophysicist 16th Conference & Exhibition, Adelaide, SA.
34. Pellerin, L., Alumbaugh, D.L., and Cuevas, N., 2002, Characterisation of cultural noise in the AMT band: In Proceedings for the Australian Society of Exploration Geophysicist 16th Conference & Exhibition, Adelaide, SA.
35. Pellerin, L., Schmidt, J.M., and Hoversten, G.M., 2003, Two-dimensional inverse and three-dimensional forward modelling of MT data to evaluate the mineral potential of the Amphitheater Mountains, Alaska, USA: *in* Proceedings of the 3rd International Symposium in Three-dimensional Electromagnetics (3DEM-3), Adelaide, Australia
36. Fisher, M.A., Nokleberg, W.J., Ratchkovski, N.A., Pellerin, L., Booker, J. and Glen, J.M.G., 2003, Geophysical Investigation of the Denali Fault, Alaska, and the October-November 2002, M 7.9 Earthquake Sequence: In Proceedings for the Seismologic Society of American Annual Meeting, San Juan, PR.
37. Pellerin, L., Schmidt, J.M., Glen, J.M.G., Bittenbender, Sampson, J., and Hoversten, G.M., 2003, 2D inverse modeling of MT data reveals insights for mineral exploration of the Amphitheater Mountains: Alaska, in Proceedings for the Joint Annual Meeting of the GAC/MAC/SEG, Vancouver, BC, Canada

Reports to the Department of Energy:

- 1994 VETEM annual report
- 1995 VETEM annual report
- 1996 VETEM/EMID annual report

1997 Liquid Viscous Barrier Verification Work Plan and Test Plan
 1997 Dover Thin diaphragm Barrier Verification Work Plan and Test Plan
 1997 Geophysical Verification of the Viscous Liquid Barrier Demonstrated at the Brookhaven National Laboratory
 1997 Geophysical Verification of the Thin Diaphragm Wall at the Dover National Test Site
 1999 Statistical Modeling as a Tool to Geophysical Verification of a Subsurface Barrier

Invited Talks:

1. University of California, Berkeley, Engineering Geosciences Seminar: "Use of transient electromagnetic inversion for correction of the magnetotelluric static shift" (9/88)
2. San Diego Supercomputer Center Seminar: "3-D Visualization of transient electric fields" (9/89)
3. The Association for Women Geoscientists, Salt Lake Chapter Seminar: "3-D Visualization of transient electric fields" (11/89)
4. Schlumberger-Doll Research Seminar: "A numerical study of the vertical electric source in a 3-D earth" (9/91)
5. SEG mini-workshop on electrical methods - a poster and talk: "Evaluation of electromagnetic techniques in geothermal exploration" (9/92)
6. International Workshop on Airborne Electromagnetic Methods, Univ. of Arizona: "Interpretation of a low-level helicopter electromagnetic survey flown over the Idaho National Engineering Laboratory" (9/93)
7. U.S. Department of Energy Buried Waste Integrated Demonstration Geophysics Workshop: "Interpretation of a low-level helicopter electromagnetic survey flown over the Idaho National Engineering Laboratory" (9/93)
8. U.S. Department of Energy Buried Waste Integrated Demonstration Geophysics Workshop: "VETEM - a Very Early Time Electromagnetic System (9/93)
9. ERIM Thematic Conference on Geological Remote Sensing: "New technologies in environmental characterization at the Branch of Geophysics" (2/93)
10. U.S. Department of Energy Buried Waste Integrated Demonstration Exhibition: "Interpretation of a low-level helicopter electromagnetic survey flown over the Idaho National Engineering Laboratory" (7/93)
11. U.S. Department of Energy Buried Waste Integrated Demonstration Exhibition: "VETEM, a very early time electromagnetic system" (8/94)
12. National Academy of Sciences, Seeing Into the Earth Workshop: "VETEM, a very early time electromagnetic system" (10/95)
13. Stanford University, Department of Geology and Geophysics Seminar: "Environmental Geophysics" (3/96)
14. Aarhus University, Denmark, Earth Science Seminar: "VETEM, a very early time electromagnetic system" (9/96)
15. University of Koeln, Germany, Geophysical Seminar: "VETEM, a very early time electromagnetic system" (9/96)
16. BGR (German Geological Survey), Hannover, Germany, Geophysical Seminar: "VETEM, a very early time electromagnetic system" (9/96).
17. Environmental and Engineering Geophysical Society - European Section Annual Meeting, Aarhus, Denmark, plenary session speaker: "Environment investigations within government facilities in the US" (9/97).
18. Scandinavian workshop on the environment, Lund, Sweden: "Environmental investigations in the USA" (9/97).
19. National Academy of Sciences Workshop: "Verification of subsurface barriers" (9/97)
20. Aarhus University, Denmark, Dept. Of Earth Science Seminar: "Exploration at the South Pole" (9/98)

21. Uppsala University, Sweden, Dept. Of Geosciences Seminar: "Exploration at the South Pole" (9/98)
22. University of Koeln, Germany, Dept. Of Earth Science Seminar: "Exploration at the South Pole" (9/98)
23. ETH, Zurich, Switzerland, Dept. Of Earth Science Seminar: "Exploration at the South Pole" (9/98)
24. Bay Area Geophysical Society, monthly meeting: "Exploration at the South Pole" (2/99)
25. Association for Women Geoscientists, Annual Award Banquet: "Exploration at the South Pole" (4/99)
26. Aarhus University, Denmark, Dept. Of Earth Science Seminar: "Subsurface Barrier Verification" (11/99)
27. Danish Greenland Geological Survey, Copenhagen, Denmark: "Exploration at the South Pole" (11/99)
28. Norwegian Geological Survey, Trondheim, Norway, Distinguish lecturer seminar: "Exploration at the South Pole" (12/99)
29. University of Wisconsin, Madison, Distinguish lecturer seminar: "Subsurface Barrier Verification" (1/00)
30. University of Wisconsin, Madison, Geo Club monthly meeting: "Environmental Investigations" (1/00)
31. 15th International Workshop on Electromagnetic Induction in the Earth, Cabo Frio, Brazil: "Applications of Electrical and Electromagnetic Methods for Environmental and Geotechnical Investigations in the Year 2000" (8/00)
32. Engineering and Environmental Geophysical Society - European Section Annual Meeting, Birmingham, UK: Environmental and engineering geophysics in the USA in 2001 (8/01)
33. Alaska Miner Association Annual Meeting, Anchorage, AK: "Geophysical investigations related to the mineral potential of southcentral Alaska: A summary of results from the Talkeetna Mountains Transect project" (11/02)

Professional Service:

Associate editor

SEG, Journal of Geophysics, electromagnetic and electrical methods, Nov 2002 to date

EAGE, Journal of Near Surface Geophysics, electromagnetic methods, Nov 2002 to date

Alaska Mining Association

Member 1978 to 1984, 2002

American Association for the Advancement of Science

Member 1999 to date

American Geophysical Union (AGU)

Member 1985 to date

Associate Editor for *Geophysics* – electromagnetics

Nov 2002 to date

Association for Women Geoscientists (AWG)

Founding member 1977 to date

Founding president Salt Lake chapter 1989 to 1991

Member National Board of Director - Chapter delegate for the SF Bay Area chapter 1997 to 1999

Environmental & Engineering Geophysical Society (EEGS)

Founding member 1992 to 1999

Organized and moderated an all-day workshop at SAGEEP '94 in Boston, MA

Co-chair research committee 1995-1997

General meeting chair of SAGEEP '99, the world's largest environmental geophysical conference

Environmental & Engineering Geophysical Society – European Section (EEGS-ES)
Member 1995 to date
Plenary session keynote speaker – 1997, Aarhus, Denmark
Invited speaker – 2001, Birmingham, UK

European Association of Geoscientists and Engineers
Member 1996 to date

Gerald W. Hohmann Memorial Trust
Trustee 1995 to date

Nordic Summer Course in Environmental Geophysics (NorFA)
Guest lecturer in electromagnetic geophysics, 1998.

Reviewer for:
Geophysics; Journal of Applied Geophysics;
Journal of Environmental and Engineering Geophysics;
Journal of Electromagnetic Waves and Applications;
Geophysical Prospecting;
Department of Energy proposals;
Small Business Innovative Research Proposals;
US Geological Survey proposals.

Society of Exploration Geophysicist (SEG)
Active Member 1980 to date;
Founding member Near Surface Geophysics Section 1993 to date
Vice President of the Near Surface Section 2004

Summer of Applied Geophysical Experience (SAGE)
Instructor in near-surface geophysics, 1993 to present.

University of Utah Geophysical Society
Member 1985 to 1992
Vice-president 1988
President 1989