

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:

03/13 to date President, Green Geophysics, Inc. Berkeley, CA
05/03 to 03/13 Manager Geophysical Services, Green Engineering, Inc., Anchorage, AK
06/03 to date Faculty, the Summer of Applied Geophysical Experience (SAGE), Santa Fe, NM
04/05 to 08/10 Consulting Professor, School of Earth Sciences, Stanford University, Palo Alto, CA
05/01 to 05/03 Consulting Geophysicist, Berkeley, CA
03/00 to 05/01 Visiting professor, Dept. of Earth Science, Aarhus University, Aarhus, Denmark
02/00 to 02/02 Senior scientist, University of Utah, Energy & Geoscience Institute, Salt Lake City, UT
01/99 to 01/00 Geophysicist, GSY-USA, Inc., San Francisco, CA
01/96 to 09/98 Staff Geological Scientist, Lawrence Berkeley National Laboratory, Berkeley, CA
06/93 to 06/02 Adjunct Faculty, the Summer of Applied Geophysical Experience (SAGE), Santa Fe, NM
05/92 to 01/96 Research Geophysicist, US Geological Survey, Branch of Geophysics, Denver, CO
From 1978 field geophysicist in mineral and geothermal exploration geophysics, AK and CA

RESEARCH:

Bridging the gap between theory and application of electrical and electromagnetic geophysical methods in environmental, hydrological, geotechnical crustal investigations, and natural resource exploration

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ABSTRACTS FOR ORAL OR POSTER PRESENTATION:

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44. McPhee, D.K., Pellerin, L., Chuchel, B. and Dixon, G.L., 2005, Resistivity Imaging of Spring Valley, Nevada Using the Audiomagnetotelluric Method, American Geophysical Union Assembly, New Orleans, LA
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47. Hinz, E., Peacock, J., Ferguson, J., and Pellerin, L., 2006, An Ongoing Investigation of the San Marcos Pueblo, New Mexico, Symposium for the Application of Geophysics to Environmental and Engineering Problems (SAGEEP), Bellevue, WA
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73. Webb, S., J, Ngoben, D., Lee, S-A, Sepato, O., Jones, M., Abiye, T., Lee, M.D., Pellerin, L., Burrows, D., 2012, Time-lapse resistivity and geophysical measurements at Dayspring Children's Village: Expanded Abstract for the Society of Exploration Geophysics, pp. 1-5 (5 pages), <http://dx.doi.org/10.1190/segam2012-1353.1>
74. Jiracek, G.R., Feucht, D.W., Brown, D., Castro, B., Chang, J., Goff, D., Hardwick, C., Hollingshaus, B., Bowles-martinez, E., Nakai, J., Wilson, C., Bertrand, E.A., Bennie, S., Caldwell, G., Hill, G.J., Wallin, E., Bedrosian, P.A., Hasterok, D.P. and Pellerin, L. 2012, Magnetotelluric Phase Tensor Applications to Geothermal Assessment in New Zealand and New Mexico: American Geophysical Union Annual Meeting, San Francisco, CA, USA
75. Pellerin, L., Gallegos, M., Goebel, M., Murphy, B., Smith, J., Soto, D., Swiatlowski, J., Volk, C., Welch, M., Feucht, D., Hollingshaus, B., Bedrosian, P.A., McPhee, D.K., 2012, Mapping the edge of the Cerros del Rio volcanic field, New Mexico: a piece of the puzzle to understanding a potential geothermal resource: American Geophysical Union Annual Meeting, San Francisco, CA, USA
76. Jones, D., Chu, S., Barghouty, L., Mostafanejad, A., Lasscock, B., McCormack, K., Bedrosian, P.A., Pellerin, L., 2013, Magnetotelluric Investigation of Structures Related to a Geothermal Anomaly in the Buckman Well field in the Rio Grande Rift, New Mexico: American Geophysical Union Annual Meeting, San Francisco, CA, USA
77. Grimes, K., Joiner, C.J., Musa, D., Allred, I., Delhaye, R., Zorin, N., Feucht, D.W., Johnston, G., Pellerin, L., McPhee, D.K., Ferguson, J.F., 2013, Archaeological Geophysics at the San Marcos Pueblo, New Mexico, USA: American Geophysical Union Annual Meeting, San Francisco, CA, USA
78. Pellerin, L., Schnabel, G.R., Schnabel, E., Moscoso, K.M., Brophy, P., 2013, Searching for Warm Waters at the Mt. Cobb Sai Sho Zen-ji: American Geophysical Union Annual Meeting, San Francisco, CA, USA
79. Poje, M., S., L. Berry, K., Brandt, T., Irwin, T., Creighton, A., MacLennan, K., Ferguson, J.F. and Pellerin, L., 2014, The San Marcos Pueblo Archaeological Site: A Review and Update of Ongoing Work by the Summer of Applied Geophysical Experience (SAGE): American Geophysical Union Annual Meeting, San Francisco, CA, USA
80. Adams, A., Moeller, M.M., Snyder, E., Workman, E., Urquhart, S., Bedrosian, P.A., and Pellerin, L., 2014, Geological Hypothesis Testing and Investigations of Coupling with Transient Electromagnetics: American Geophysical Union Annual Meeting, San Francisco, CA, USA
81. Derosier, B., Dennis, K.N., Plata-Martinez, R.O., Montahaei, M., Bedrosian, P.A. and Pellerin, L., 2014, Dimensionality and geological implications of a sparse magnetotelluric dataset: American Geophysical Union Annual Meeting, San Francisco, CA, USA

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: "3D Visualization of transient electric fields" (9/89)
3. The Association for Women Geoscientists, Salt Lake Chapter Seminar: "3D Visualization of transient electric fields" (11/89)
4. Schlumberger-Doll Research Seminar: "A numerical study of the vertical electric source in a 3D 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. DOE 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, Geophysical Earth Science Seminar: "VETEM, a very early time electromagnetic system" (9/96)
15. University of Köln, Germany, 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. Nordic 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 Köln, 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" (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)
34. Society of Exploration Geophysics Summer Research Workshop on Hydrogeophysics, Vancouver, BC, Mapping Large Areal Coverage and Deep Sounding Depths – EM Methods for the Regional Watershed Scale (07/06)
35. National Groundwater Association annual meeting, Las Vegas, NV, Geophysics for Geologic and Hydrostratigraphic and Aquifer Basin Mapping (12/06)
36. National Groundwater Association annual meeting, Orlando, FL, Geophysical Technology for Groundwater Resource Evaluation: Electrical and Electromagnetic Methods, (12/07)
37. American Geophysical Union, The use of Near-surface Geophysics in Evaluating and Assessing Natural Hazards, San Francisco, CA, (12/07)
38. The German Geophysical Society, The role of Electrical and Electromagnetic Modeling and Inversion in Near-surface Applications, Freiburg, Germany (3/08)
39. Stanford University, The role of Electromagnetic Modeling and Inversion in Near-surface Applications, Palo Alto, CA (2/09)
40. Colorado School of Mines, Heiland Lecture, The role of Electromagnetic Modeling and Inversion in Near-surface Applications, Golden, CO (3/09)
41. University of Kansas, The role of Electromagnetic Modeling and Inversion in Near-surface Applications, Lawrence KS (10/12)
42. UC Berkeley, The role of Electromagnetic Modeling and Inversion in Near-surface Applications, Berkeley, CA, (10/12)
43. University of Aarhus, Imaging Levees, Aarhus. Denmark (8/13)

44. University of Witswaterand, Electromagnetic Methods in Near-surface Applications, Johannesburg, South Africa (10/13)

PROFESSIONAL SERVICE/MEMBERSHIP/HONORS:

Alaska Mining Association

Member 1978 to 1984, 2002 to date

American Association for the Advancement of Science (AAAS)

Member 1999 to date

American Geophysical Union (AGU)

Member 1985 to date

Founding member Near-Surface Geophysics Focus Group, 2005 to date

Vice Chair Near-Surface Geophysics Focus Group, 2008- 2010

President of the Near Surface Geophysics Focus Group, 2010-2012

Council member 2010-2012

Meeting Committee member, 2013-2014

General Secretary, term 2015-2016

Association for Women Geoscientists (AWG)

Founding member 1977 to date

Founding president Salt Lake chapter 1989-1991

National Board of Director – SF Bay Area Chapter delegate 1997-1999

Brunton Award committee chair 2005 to date

Enhance Award, 2008

AWG Foundation President/past President 2009-2011/2011-2013

Australian Society of Exploration Geophysicist (ASEG)

Member 2003 to date

Bay Area Geophysical Society

Member 1996-date

Secretary 2013-2014

Consortium of Universities for the Advancement of Hydrologic Sciences

Hydrologic Measurement Facility (HMF) 2005-2007

Member of the Geophysics Module 2005-2007

Environmental & Engineering Geophysical Society (EEGS)

Founding member 1992 to date

Organizer/moderator all-day workshop on Electromagnetics at SAGEEP, Boston, MA, 1994

Co-chair research committee 1995–1997

General meeting chair SAGEEP '99, Oakland CA

European Association of Geoscientists and Engineers

Member 1996 to date

Associate editor *Journal of Near Surface Geophysics*, 2002-2006

Editor Hydrogeophysics: Methods and Processes, 2009, ISBN Number 978-90-73781-75-7, 661 pg

Gerald W. Hohmann Memorial Trust

Trustee 1995 to date

Nordic Summer Course in Environmental Geophysics (NorFA)

Lecturer in electromagnetic geophysics, 1998

Reviewer for:

Department of Energy

Geophysical Prospecting

Geophysics

Journal of Applied Geophysics

Journal of Environmental and Engineering Geophysics

Journal of Near Surface Geophysics

Mine Safety and Health Administration

US Geological Survey
Irish Science Foundation
University of Uppsala, Sweden
Society of Exploration Geophysicist (SEG)
Member 1980 to date
Founding member Near Surface Geophysics Section (NSGS) 1993 to date
Associate editor for *Geophysics*, electromagnetic and electrical methods, 2002-2006
Near Surface Geophysics Section VP/President-Elect/President/past-President, 2004/2005/2006/2007
2nd Vice President 2007-2008
Geoscience Without Borders founding committee member, 2008-2010
Governance Review Committee, 2008-2011
Publication committee member, 2008-date
Youth Education committee chair 2007-2008, member 2008-2009
Task force for Youth Education and Historical Preservation Chair, 2009
Recipient of the NSGS Harold Mooney Award, 2009
Bylaws Committee member 2009-date, chair 2011-2013
American Geoscience Institute Representative, 2012 to date
Distinguish Lecturer Committee member 2008-2013, chair 2013-2014
Life Membership awarded 2014

CLIENTS, SUBCONTRACTORS, COLLABORATORS – PAST AND PRESENT:

Aarhus Geophysics Aps	NEOS GeoSolutions
Adam Schultz, Oregon State University	Nevada Star Resource Corp.
AMEC Geomatrix Consultants, Inc	Paul A. Bedrosian, US Geological Survey
Argus Geophysics	Philip E Wannamaker, University of Utah
California Department of Water Resources	Rosemary Knight, Stanford University
Darcy K. McPhee, US Geological Survey	Schlumberger ElectroMagnetic Instruments
David L. Alumbaugh, NEOS GeoSolutions	Schlumberger Water Services
Dragonfly Air LLC	SkyTEM Aps
Esben Auken, Aarhus University, Denmark	Southern Nevada Water Authority
Flur Hanford	Summer of Applied Geophysical Experience (SAGE)
Geometrics	Tremaine and Associates
GeothermEx, a Schlumberger Company	U.S. Army Corp of Engineers
GroundMetrics, Inc	URS Corporation
HydroGeophysics Group, University of Aarhus, DK	US Dept of Labor, Mine Safety and Health
IRIS EarthScope/EMScope	Administration
Jacobs Engineering	US Geological Survey, Alaska Science Center, Denver,
John Ferguson, University of Texas, Dallas	and Menlo Park
Lee D. Slater, Rutgers University	Zonge International



Louise Pellerin, 1 June 2015