

# HARRY MARTIN JOL

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## EDUCATION

- Ph.D.** UNIVERSITY OF CALGARY, Calgary, Alberta, Canada  
1993 *Dissertation:* Ground Penetrating Radar (GPR): A New Geophysical Methodology Used to Investigate the Internal Structure of Sedimentary Deposits (Field Experiments on Deltas)  
*Advisor:* Dr. Derald G. Smith
- M.Sc.** SIMON FRASER UNIVERSITY, Burnaby, British Columbia, Canada  
1989 *Thesis:* Seismic Stratigraphic Analysis of the Southeastern Fraser River Delta, B.C.  
*Advisor:* Dr. Michael C. Roberts
- B.Sc.** SIMON FRASER UNIVERSITY, Burnaby, British Columbia, Canada  
1987 *Major:* Physical Geography

## ACADEMIC AWARDS

- |                                    |   |
|------------------------------------|---|
| 2018                               | Visiting Erskine Fellowship – University of Canterbury, Christchurch, New Zealand |
| 2017                               | Excellence in Service-Learning – Faculty Mentor (UWEC)                            |
| 2017-18                            | University of Wisconsin Sabbatical Leave  |
| 2008                               | Fellow - Geological Society of America  |
| 2003                               | Visiting Erskine Fellowship – University of Canterbury, Christchurch, New Zealand |
| 2002-03                            | University of Wisconsin Sabbatical Leave  |
| 1999                               | Nominated CASE Professor of the Year (Teaching)                                   |
| 1999                               | Distinguished Educational Web Site  |
| 1994-96                            | NSERC Post-Doctoral Fellowship (2 yrs)  |
| 1993-94                            | University of Calgary Post-Doctoral Fellowship                                    |
| 1993                               | Province of Alberta Graduate Scholarship  |
| 1992                               | Izaak Walton Killam Memorial Scholarship  |
| 1991-92                            | Ralph Steinhauer Award of Distinction (2 yrs)                                     |
| 1991-92                            | Petro-Canada Inc. Graduate Research Award (2 yrs)                                 |
| 1989-90                            | NSERC Postgraduate PG3 Scholarship (2 yrs)  |
| 1988                               | Simon Fraser University Graduate Fellowship                                       |
| <i>plus 9 Undergraduate awards</i> |   |

## TEACHING EXPERIENCE

- 2006 – present **Professor**, University of Wisconsin-Eau Claire  
Geography 104 - The Physical Environment  
Geography 178 – Conservation of the Environment  
Geography 304 – Introduction to Geomorphology  
Geography 360 – Geomorphology  
Geography 361 – Environmental Hazards  
Geography 368 – Desert Southwest Field Seminar



1993	<b>Co-Instructor</b> , University of Calgary, AB Geography 307 - Landform Processes and Morphology
1992	Teaching introductory geomorphology and desert geomorphology to undergraduates on a one week geomorphic field trip in Death Valley, California
1990-93	Guest lecturer/field trip guide - ground penetrating radar, deltas
1989-90	Instructor and Project Supervisor (Canada World Youth) - responsible for development and implementation of a youth educational international development program involving participants and communities in Canada and Indonesia

## **PUBLICATIONS and PRESENTATIONS**

### **Refereed Papers**

66. Schide, K.H., Jewell, P.W., Oviatt, C.G., Jol, H.M., and Larsen, C.F., 2018. Transgressive-phase barriers as indicators of basin-wide lake-level changes in late Pleistocene Lake Bonneville, Utah, USA: *Geomorphology*, v. 318: 390-403, <https://doi.org/10.1016/j.geomorph.2018.07.007>.
65. Jol, H.M., 2018. Ground penetrating radar subsurface imaging within the Cave of Letters: in Savage, C., Reeder, P., Freund, R.A. and Jol, H.M. eds., *Dead Sea: New discoveries in the Cave of Letters*: Peter Lange Inc., International Academic Publishers, Series: Crosscurrents: New Studies on the Middle East (Book 2), 296 pp.
64. Schaetzl, R.J., Larson, P.H., Faulkner, D.J., Running, G.L., Jol, H.M., and Rittenour, T.M., 2017. Eolian sand and loess deposits indicate west-northwest paleowinds during the Lake Pleistocene in western Wisconsin, USA: *Quaternary Research*, <https://doi.org/10.1017/qua.2017.88>
63. Nobes, D.C., Jol, H., and Duffy, B., 2016. Geophysical imaging of disrupted coastal dune stratigraphy and possible mechanisms, Haast, South Westland, New Zealand: *New Zealand Journal of Geology and Geophysics*, v. 59, 426-435, doi: 10.1080/00288306.2016.1168455.
62. Faulkner, D.J., Larson, P.H., Jol, H.M., Running, G.L., Loope, H.M., and Goble, R.J., 2016. Autogenic incision and terrace formation resulting from abrupt late-glacial base-level fall, lower Chippewa River, Wisconsin, USA: *Geomorphology*, v. 266: 75–95, doi:10.1016/j.geomorph.2016.04.016
61. Gouramanis, C., Switzer, A.D., Polivka, P.M., Bristow, C.S., Jankaew, K., Dat, P.T., Pile, J., Rubin, C.M., Yingsin, L., Ildefonso, S.R., and Jol, H.M., 2015. Ground penetrating radar (GPR) examination of thin tsunami beds – A case study from Phra Thong Island, Thailand. *Sedimentary Geology*, v. 329: 149-165, doi: 10.1016/j.sedgeo.2015.09.011
60. Loope, T.G., Jol, H.M., Fisher, T.G., Blewett, W.L., Loope, H.M., Legg, R.J., 2014. A previously unrecognized path of early Holocene base flow and elevated discharge from Lake Minong to Lake Chippewa across eastern Upper Michigan, in Fisher, T.G., and Hansen, E.C., eds., *Coastline and Dune Evolution along the Great Lakes*: Geological Society of America Special Paper 508, p. doi: 10.1130/2014.2508(01)
59. Higley, M.C., Fisher, T.G., Jol, H.M., Lepper, K., and Martin-Hayden, J.M., 2014. Stratigraphic and chronologic analysis of the Warren Beach, northwest, Ohio, USA. *Canadian Journal of Earth Sciences*, v. 51: 737-749, doi: 10.1139/cjes-2014-0047.
58. Fisher, T.G., Krantz, D.E., Castaneda, M.R., Loope, W.L., Jol, H.M., Goble, R., Higley, M.C., DeWald, S., and Hanson, P.R., 2014. Coastal geology and recent origins for Sand Point, Lake Superior, in Fisher, T.G., and

- Hansen, E.C., eds., *Coastline and Dune Evolution along the Great Lakes: Geological Society of America Special Paper 508*, p. doi: 10.1130/2014.2508(06).
57. Craig, M.S., Jol, H.M., Teitler, L., Warnke, D.A., 2012. Geophysical surveys of a pluvial lake barrier deposit, Beatty Junction, Death Valley, California, USA. *Sedimentary Geology*, v. 269-270: 28-36.
  56. Bristow, C.S., Augustinus, P., Rhodes, E.J., Wallis, I.C., Jol, H.M., 2011, Is climate change affecting rates of dune migration in Antarctica? *Geology*, v. 39(9), p. 831-834.
  55. Loope, H.M., Loope, W.L., Goble, R.J., Fisher, T.G., and Jol, H.M., 2010. Early Holocene eolian dune activity linked with final destruction of glacial Lake Minong, eastern Upper Michigan, USA: *Quaternary Research*, v. 74, 73-81.
  54. Peterson, C.D., Jol, H.M., Vanderburgh, S., Phipps, J.B., Percy, D., and Gelfenbaum, G., 2010. Dating of late Holocene beach shoreline positions by regional of regional correlation of coseismic retreat events in the Columbia River Littoral cell, USA: *Marine Geology*, v. 273, p. 44-61. doi: 10.1016/j.margeo.2010.02.003
  53. Bristow, C.S., Jol, H.M., Augustinus, P., and Wallis, I., 2010. Slipfaceless 'whaleback' dunes in a polar desert, Victoria Valley, Antarctica: Insights from ground penetrating radar: *Geomorphology*, v. 114, p. 361-371. doi: 10.1016/j.geomorph.2009.08.001.
  52. Peterson, C.D., Vanderburgh, S., Roberts, M.C., Jol, H.M., Phipps, J., and Twichell, D. 2010. Composition, age, and depositional rates of shoreface deposits under barriers and beach plains of the Columbia River littoral cell, USA: *Marine Geology*, v. 273, p. 62-82. doi: 10.1016/j.margeo.2010.02.004
  51. Bristow, C.S., Augustinus, P., Wallis, I., Jol, H.M., and Rohdes, E.J., 2010. Investigation of the age and migration of reversing dunes in Antarctica using GPR and OSL, with implications for GPR on Mars: *Earth and Planetary Science Letters*, v. 289(1-2), p. 30-42. doi: 10.1016/j.epsl.2009.10.026.
  50. Curt D. Peterson, Harry M. Jol, Tom Horning, and Kenneth M. Cruikshank, "Paleotsunami Inundation of a Beach Ridge Plain: Cobble Ridge Overtopping and Interridge Valley Flooding in Seaside, Oregon, USA," *Journal of Geological Research*, vol. 2010, Article ID 276989, 22 pages, 2010. doi:10.1155/2010/276989
  49. Dickson, M.E., Bristow, C.S., Hicks, D.M., Jol, H.M., Stapleton, J., and Todd, D., 2009. Beach volume on an eroding sand-gravel coast determined using ground penetrating radar: *Journal of Coastal Research*, v. 25(4), p. 1149-1159.
  48. Buynevich, I.V., Jol, H.M., and FitzGerald, D.M., 2009. Coastal environments, *in* Jol, H.M., ed., *Ground penetrating radar (GPR) theory and applications*: Elsevier, p. 299 – 322.
  47. Shroder, J.F., Jol, H.M., and Reeder, P.P., 2009. El Araj as Bethsaida: spatial and temporal improbabilities, *in* Freund, R.A., and Arav, R., eds., *Bethsaida a city by the north shore of the Sea of Galilee*, Volume 4: Truman State University Press, p. 293 – 309.
  46. Kettridge, N., Comas, X., Baird, A., Slater, L., Strack, A., Jol, H., Binley, A., 2008. Ecohydrological important subsurface structures revealed by ground-penetrating radar and complex conductivity surveys. *Journal of Geophysical Research*, v. 113, G04030, doi:10.1029/2008JG000787
  45. Peterson, C.D., Cruikshank, K.M., Jol, H.M., and Schlichting, R.B., 2008. Minimum run up heights of paleotsunami from evidence of sand ridge overtopping at Cannon Beach, Oregon, Central Cascadia Margin, USA: *Journal of Sedimentary Research*, v. 78, p. 390-409. DOI 10.2110/jsr.2008.044
  44. Rother, H., Jol, H.M., and Shulmeister, J., 2007, Stratigraphy and tectonic implications of Late Pleistocene valley fill in the Hope Valley, Canterbury, South Island, New Zealand, *in* Baker, G.S., and Jol, H.M., eds., *Stratigraphic Analyses Using GPR: Geological Society of America Special Publication 432*, p. 155 – 168.

43. Mumpy, A.J., Jol, H.M., Kean, W.F., and Isbell, J.L., 2007, Architecture and sedimentology of an active braid bar in the Wisconsin River: based on 3-D ground penetrating radar, *in* Baker, G.S., and Jol, H.M., eds., *Stratigraphic Analyses Using GPR: Geological Society of America Special Publication 432*, p. 111 – 132.
42. Peterson, C.D., Jol, H.M., and Percy, D., and Nielsen, E.L., 2007, Groudwater surface trends from ground penetrating radar (GPR) profiles taken across Late Holocene barriers and beach plains of the Columbia River littoral system, Pacific Northwest Coast, USA, *in* Baker, G.S., and Jol, H.M., eds., *Stratigraphic Analyses Using GPR: Geological Society of America Special Publication 432*, p. 59 - 76.
41. Fisher, T.G., Loope, W.L., Pierce, W., and Jol, H.M., 2007, Big lake records in a little lake's sediment: an example from Silver Lake, Michigan, USA: *Journal of Paleolimnology*, v. 37, p. 365-382. DOI 10.1007/s10933-0053-2
40. Moysey, S., Knight, R., and Jol, H., 2006, Texture-based classification of ground-penetrating radar images: *Geophysics*, v. 71(6), p K111-K118.
39. Nobes, D.C., Rother, H., van der Kruck, J., and Jol, H.M., 2006, Radar "lensing" by a small river: Can a layer of surface water improve the signal?: *Near Surface Geophysics*, v. 4, p. 69-74.
38. Smith, D.G., Jol, H.M., Smith, N.D., Kostachuk, R.A., and Pearce, C.M., 2005, The wave-dominated William River Delta, Lake Athabasca, Canada: its morphology, radar stratigraphy, and history, *in* Giosan, L. and Bhattacharya, J.P., eds., *River Deltas - Concepts, Models and Examples: SEPM Special Publication 83*, p. 295 – 318.
37. Fisher, T.G., Jol, H.M., and Boudreau, A.M., 2005, Saginaw Lobe tunnel channels (Laurentide Ice Sheet) and their significance in south-central Michigan, USA: *Quaternary Smith Reviews*, v. 24, p. 2375-2391.
36. Havholm, K.G., Ames, D.V., Whittecar, G.R., Wenell, B.A., Riggs, S.R., Jol, H.M., Berger, G.W., and Holmes, M.A., 2004, Stratigraphy of back-barrier coastal dunes, northern North Carolina and southern Virginia: *Journal of Coastal Research*, v. 20, p. 980-999.
35. Reeder, P., Jol, H., Freund, R., and Savage, C., 2004, Geoarchaeology of the Qumran Archaeological Site, Israel: *Focus on Geography*, v. 48, p. 12-19.
34. Moore, L.J., Jol, H.M., Kruse, S., Vanderburgh, S., and Kaminsky, G.M., 2004, Annual layers revealed in the subsurface of a prograding coastal barrier: *Journal of Sedimentary Research*, v. 74, p. 690-696.
33. Loope, W.L., Fisher, T.G., Jol, H.M., Goble, R.J., Anderton, J.B., and Blewett, W.L., 2004, A Holocene history of dune-mediated landscape change along the southeastern shore of Lake Superior: *Geomorphology*, v. 61, p. 303-322.
32. Jol, H.M., Lawton, D., and Smith, D.G., 2003, Ground penetrating radar: 2D and 3D examples from Long Beach Washington: *Geomorphology*, v. 53, p. 165-181.
31. Jol, H.M., Bristow, C.S., Smith, D.G., Junck, M.B., and Putnam, P., 2003, Stratigraphic imaging of the Navajo Sandstone using ground-penetrating radar: *The Leading Edge*, v. 22(9), p. 882-887.
30. Moore, L.J., Kaminsky, G.M., and Jol, H.M., 2003, Linkages between shoreline progradation and El Nino southern oscillations, Southwest Washington, USA: *Geophysical Research Letters*, v. 39(9), p. 1448 - , DOI:10.1029/2002GL016147.
29. Jol, H.M., and Bristow, C.S., 2003, GPR in sediments: advice on data collection, basic processing and interpretation, a good practice guide, *in* Bristow, C.S. and Jol, H.M., eds., *GPR in Sediments: Geological Society of London, Special Publication 211*, p. 9-27.

28. Fisher, T.G., Taylor, L.D., and Jol, H.M., 2003, Boulder-gravel hummocks and wavy, basal till contacts: products of subglacial meltwater flow beneath the Saginaw Lobe, south-central Michigan, U.S.A.: *Boreas*, v. 32, p. 328-336.
27. Kruse, S.E., and Jol, H.M., 2003, Amplitude and waveform analysis of repetitive GPR reflections: a Lake Bonneville Delta, Utah, *in* Bristow, C.S. and Jol, H.M., eds., *GPR in Sediments: Geological Society of London, Special Publication 211*, p. 287-298.
26. Havholm, K.G., Bergstrom, N.D., Running IV, G.L., and Jol, H.M., 2003, GPR survey of a Holocene Aeolian/Fluvial/Lacustrine Succession, Lauder Sand Hills, Manitoba, Canada, *in* Bristow, C.S. and Jol, H.M., eds., *GPR in Sediments: Geological Society of London, Special Publication 211*, p. 47-54.
25. Smith, D.G., Simpson, C.J., Jol, H.M., Meyers, R.A., and Currey, D.R., 2003, Radar stratigraphy used to infer transgressive or regressive deposition and internal structure of a barrier and spit, Lake Bonneville, Stockton, Utah, USA, *in* Bristow, C.S. and Jol, H.M., eds., *GPR in Sediments, Geological Society of London, Special Publication 211*, p. 70-86.
24. Sjogren, D.B., Fisher, T.G., Taylor, L.D., Jol, H.M., and Munro-Stasiuk, M.J., 2002, Incipient tunnel channels: *Quaternary International*, v. 90(1), p. 41-56.
23. Tercier, P., Knight, R., and Jol, H., 2000, A comparison of the correlation structure in GPR images of deltaic and barrier spit depositional environments: *Geophysics*, v. 65(4), p. 1142-1153.
22. Roberts, M.C., Vanderburgh, S., and Jol, H., 2000, Radar facies and geomorphology of the seepage face of the Brookwood aquifer, Fraser Lowland, *in* Ricketts, B.D., ed., *Mapping, Geophysics, and Groundwater Modelling in Aquifer Delineation, Fraser Lowland and Delta, British Columbia: Geological Survey of Canada Bulletin 552*, p. 95-102.
21. Roberts, M.C., and Jol, H.M., 2000, The sedimentary architecture and geomorphology of a cusped spit: Tsawwassen, British Columbia, *in* Völkel, J. and H.J. Barth, H.J., eds., *Beiträge zur Quartärforschung: Regensburger Geographische Schriften*, v. 33, p. 141-156.
20. Smith, D.G., Meyers, R.A., and Jol, H.M., 1999, Sedimentology of an upper meso tidal (3.7 m) Holocene barrier, Willapa Bay, SW Washington, U.S.A.: *Journal of Sedimentary Research, Section B: Stratigraphy and Global Studies*, v. 69(6), p. 1290-1296.
19. Pullan, S.E., Hunter, J.A., Jol, H.M., Roberts, M.C., Burns, R.A., and Harris, J.B. 1998, Seismostratigraphic investigations of the southern Fraser River delta, *in* Clague, J.J., Luternauer, J.L., and Mosher, D.C., eds., *Geology and Natural Hazards of the Fraser River Delta, British Columbia: Geological Survey of Canada, Bulletin 525*, p. 91-122.
18. Jol, H.M., Parry, D., and Smith, D.G., 1998, Ground penetrating radar: applications in sand and gravel aggregate exploration, *in* Bobrowsky, P.T., ed., *Aggregate Resources: A Global Perspective: A.A. Balkema Publishers*, p. 295-306.
17. Smith, D.G., and Jol, H.M., 1997, Ground penetrating radar investigation of the Peyto Delta: *Sedimentary Geology*, 113, p. 195-209.
16. Roberts, M.C., Bravard, J.P., and Jol, H.M., 1997, Radar facies of an avulsed channel of the Rhone river: Marais des Avenieres, near Aoste, France: *Journal of Quaternary Science*, v. 12(1), p. 35-42.
15. Jol, H.M., Smith, D.G., Meyers, R.A., and Lawton, D.C., 1996, Ground penetrating radar: high resolution stratigraphic analysis of coastal and fluvial environments, *in* Pacht, J.A., Sheriff, R.E., and Perkins, B.F., eds., *Stratigraphic Analysis using Advanced Geophysical, Wireline and Borehole Technology for Petroleum Exploration and*

Production: Gulf Coast Section Society of Economic Paleontologists and Mineralogists Foundation 17<sup>th</sup> Annual Research Conference, p. 153-163.

14. Jol, H.M., Smith, D.G., and Meyers, R.A., 1996, Digital ground penetrating radar (GPR): An improved and very effective geophysical tool for studying modern coastal barriers (examples for the Atlantic, Gulf and Pacific coasts, U.S.A.): *Journal of Coastal Research*, v. 12(4), p. 960-968.
13. Fisher, S.C., Stewart, R.R., and Jol, H.M., 1996, Ground penetrating radar (GPR) data enhancement using seismic techniques: *Journal of Environmental and Engineering Geophysics*, v. 1(2), p. 89-96.
12. Meyers, R., Smith, D.G., Jol, H.M., and Peterson, C.R., 1996, Evidence for eight great earthquake-subsidence events detected with ground-penetrating radar, Willapa barrier, Washington: *Geological Society of America, Geology*, v. 24, p. 99-102.
11. Jol, H.M., and Smith, D.G., 1995, Ground penetrating radar of peatlands for oil field pipelines in Canada. *Journal of Applied Geophysics*, v. 34, p. 109-123.
10. Smith, D.G., and Jol, H.M., 1995, Wasatch Fault (Utah), detected and displacement characterized by ground penetrating radar: *Bulletin of the Association of Engineering Geologists*, v. 1, p. 489-496.
9. Jol, H.M., 1995, Ground penetrating radar antennae frequencies and transmitter powers compared for penetration depth, resolution and reflection continuity: *Geophysical Prospecting*, v. 43, p. 693-709.
8. Fisher, T.G., Jol, H.M., and Smith, D.G. 1995, Catastrophic flood deposits (Aggregate) examined with ground penetrating radar, N.E. Alberta, Canada: *Canadian Geotechnical Journal*, v. 32, p. 871-879.
7. Smith, D.G., and Jol, H.M. 1995, Ground penetrating radar: antennae frequencies and maximum probable depths of penetration in Quaternary sediments. *Journal of Applied Geophysics*, v. 33, p. 93-100.
6. Jol, H.M., and Roberts, M.C. 1992, The seismic facies of a tidally influenced Holocene Delta: Boundary Bay, Fraser River delta, B.C.: *Sedimentary Geology*, v. 77, p. 173-184.
5. Jol, H.M., and Smith, D.G. 1992, Geometry and structure of deltas in large lakes: a ground penetrating radar overview, *in* Hänninen, P., and Autio, S., eds., *Fourth International Conference on Ground Penetrating Radar*, June 8-13, Rovaniemi, Finland: Geological Survey of Finland, Special Paper 16, p. 159-168.
4. Smith, D.G., and Jol, H.M. 1992, Ground penetrating radar investigation of a Lake Bonneville delta, Provo level, Brigham City, Utah: *Geological Society of America, Geology*, v. 20, p. 1083-1086.
3. Smith, D.G., and Jol, H.M. 1992, GPR results used to infer depositional processes of coastal spits in large lakes, *in* Hänninen, P., and Autio, S., eds., *Fourth International Conference on Ground Penetrating Radar*, June 8-13, Rovaniemi, Finland: Geological Survey of Finland, Special Paper 16, p. 169-177.
2. Jol, H.M., and Smith, D.G., 1991, Ground penetrating radar of northern lacustrine deltas. *Canadian Journal of Earth Sciences*, v. 28, p. 1939-1947.
1. Jol, H.M., and Roberts, M.C., 1988, The seismic facies of a delta onlapping an offshore island: Fraser River Delta, British Columbia, *in* James, D.P., and Leckie, D.A., eds., *Sequences, Stratigraphy, Sedimentology: Surface and Subsurface*: Canadian Society of Petroleum Geologists, Memoir 15, p. 137 - 142.

## Books

- Savage, C., Reeder, P., Freund, R.A. and Jol, H.M. eds., 2018. Dead Sea: New discoveries in the Cave of Letters: Peter Lange Inc., International Academic Publishers, Series: Crosscurrents: New Studies on the Middle East (Book 2), 296 pp.
- Jol, H.M., ed., 2011, Ground penetrating radar (GPR) theory and applications (Full Chinese Translation: Beijing, China, Publishing House of Electronics Industry, Elsevier, 362 p.
- Jol, H.M., ed., 2009, Ground penetrating radar (GPR) theory and applications: Elsevier, 524 p.
- Baker, G.S., and Jol, H.M., eds., 2007, Stratigraphic analyses using GPR: Geological Society of American Special Publication 432, 181 p.
- Bristow, C.S., and Jol, H.M., eds., 2003, Ground penetrating radar in sediments: Geological Society of London, Special Publication 211, 366 p.

#### **Articles/Abstracts Submitted**

(<sup>+</sup> indicates present or former UWEC undergraduate student)

- Bergevin, L., Jol, H., Beck, J., Artzy, M., and López, G. 2019. Examining Ancient Coastlines and Archeological Features at Tel Akko, Israel: Using 3D ground penetrating radar imaging: American Association of Geographers, 114th (2019) Annual Meeting, Washington, DC, April 3-7.
- Blouin, W., Jol, H., Beck, J., and Schneider, S., 2019. Applying non-linear interpolation methods at a Lithuanian Holocaust mass burial site: American Association of Geographers, 114th (2019) Annual Meeting, Washington, DC, April 3-7.
- Faulkner, D., Larson, P., Adams, H., Kuehl, K., Higendorf, Z., Jol, H., and Running, G., 2019. The Chippewa River: Paragon of a paraglacial fluvial system: American Association of Geographers, 114<sup>th</sup> (2019) Annual Meeting, Washington, DC, April 3-7.
- Pitman, S.J., Jol, H.M., Shulmeister, J., and Hart, D.E., (accepted, minor revisions). Storm response of a mixed sand gravel beach ridge plain under falling relative sea levels: A stratigraphic investigation using ground penetrating radar: Earth Surface Processes and Landforms.

#### **Peer-Reviewed Papers for Conference Proceedings/Conference Presentations**

(<sup>+</sup> indicates present or former UWEC undergraduate student)

43. Nobes, D.C., Smith, G.M., Jol, H.M., and Bell, D.H., 2018. Using GPR to delineate the Porter's Pass Fault at the Acheron Rock Avalanche, New Zealand: Proceedings of the Seventeenth International Conference on Ground Penetrating Radar (GPR 2018), June 18-21, Rapperswil, Switzerland, p. 291-294.
42. <sup>+</sup>Beck, J.D., <sup>+</sup>Burds, L.T., <sup>+</sup>Mataitis, R.J., Jol, H.M., Freund, R.A., McClymnt, A.F., and Bauman, P., 2018. Holocaust Archaeology: Searching for Nazi Mass Execution Trenches at Fort IX (Kaunas, Lithuania): Proceedings of the Seventeenth International Conference on Ground Penetrating Radar (GPR 2018), June 18-21, Rapperswil, Switzerland, p. 79-82.
41. <sup>+</sup>Burds, L.T., <sup>+</sup>Beck, J.D., <sup>+</sup>Mataitis, R.J., Jol, H.M., Freund, R.A., McClymnt, A.F., and Bauman, P., 2018. Holocaust Archaeology: Using ground penetrating radar to locate a Jewish mass grave in Kaunas, Lithuania: Proceedings of the Seventeenth International Conference on Ground Penetrating Radar (GPR 2018), June 18-21, Rapperswil, Switzerland, p. 70-73.
40. <sup>+</sup>Morrison, S.M., Jol, H.M., Loope, W., 2014. Radar analysis of the Grand Island tombolo, MI, USA: A case study for coastal landscapes: Proceedings of the Fifteenth International Conference on Ground Penetrating Radar (GPR 2014), June 30-July 4, Brussels, Belgium, (digital, p. 245-249).



39. Salmon, Y., Conyers, L., Jol, H., and Artzy, M., 2014. Early Second Millenium settlement landscape in the Nami Region, Israel, revealed by GPR investigations: Proceedings of the Fifteenth International Conference on Ground Penetrating Radar (GPR 2014), June 30-July 4, Brussels, Belgium, (digital, p. 60-65).
38. Nobes, D.C., Jol, H., Duffy, B., <sup>+</sup>Charlton, B., <sup>+</sup>Jaeger, N., and <sup>+</sup>Topper, N., 2014. Geophysical imaging of near-shore dunes and possible records of faulting and severe storm events, Haast, South Westland, New Zealand. Proceedings of the International Conference on Environmental and Engineering Geophysics (ICEEG) June 19-23, Xi'an, China (digital).
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254. Jol, H.M., +Wavrin, T.A., +Seamans, J.M., +Erickson, J.S., +Kleinschmidt, A.S., Freund, R.A., Reeder, P.P. Seligman, J., and Daubaras, M., 2106. Geoarchaeological and geomorphic ground penetrating radar investigations in Lithuania: High impact undergraduate research experiences – University of Wisconsin-Eau Claire’s International Fellows Program: Geological Society of America, 128th Annual Meeting, September 25-28, Denver, CO, Abstracts with Program, v. 48 (7), doi: 10.1130/abs/2016AM-285735.



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201. Simenson, D.L., Alger, R., Jol, H., Breckenridge, A., and Wattrus, N., 2013. Investigating the Duluth Bay Barrier: Subsurface imaging using ground penetrating radar: Duluth/Superior, Minnesota & Wisconsin, USA: Preliminary results. West Lakes Division of the Association of American Geographers, 2013 Annual Meeting, Eau Claire, WI, October 17-19, Program, p. 4.
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21. Jol, H.M., Smith, D.G. and Meyers, R.A. 1993. Ground penetrating radar of lacustrine spits in northwestern Saskatchewan. The 1993 Meeting of the Canadian Quaternary Association, April 18-21, Royal British Columbia Museum, Victoria, British Columbia, Program with Abstracts and Field Guide, p. A25. **(BEST STUDENT PAPER)**
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18. Krause, F.F., Aitken, S.A., Braunberger, W.F., Chung, P., Macrae, A., Meyer, R.O., Nunez-Betelu, L., Williams, C.A. and Jol, H.M. 1993. Autocyclic progradation and allocyclic ravinement of a shoreface: sedimentology and sequence stratigraphy of the Panther sandstone tongue (upper Cretaceous, Campanian), Wasatch Plateau, Utah, U.S.A. Geological Society of America, Rocky Mountain and Cordilleran Section Meeting, May, 19-21, Reno, Nevada, 1993 Abstracts with Programs, v. 25 (5), p. 64.
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8. Jol, H.M. and Smith, D.G. 1991. High resolution sequence stratigraphy using ground penetrating radar: a new approach. *In: 1991 NUNA Conference on High-Resolution Sequence Stratigraphy*, August 23-30, Banff, Alberta, Leckie, D.A., Posamentier, H.W. and Lovell, R.W.W. (eds.), Geological Association of Canada, Programme/Proceeding/Guidebook, p. 21-24.
7. Jol, H.M. and Smith, D.G. 1991. Ground penetrating radar of river deltas. 1991 Canadian Society of Exploration Geophysics National Convention, May 14-16, Calgary, Alberta, Program and Abstracts, p. 33. **(HONOURABLE MENTION)**
6. Jol, H.M. and Smith, D.G. 1991. Radar stratigraphy of modern fluvial and deltaic deposits using ground penetrating radar. Canadian Sedimentology Research Group Meeting, May 15-16, Calgary, Alberta.
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4. Moorman, B.J., Smith, D.G., Judge, A.S. and Jol, H.M. 1990. Assessing the ability of ground penetrating radar to delineate different fluvial sediments. Third International Conference on Ground Penetrating Radar, May 14-18, 1990, Lakewood, Colorado, Abstracts of the Technical Meeting/Conference Program, p. 51.
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2. Roberts, M.C. and Jol, H. 1989. The application of high resolution seismic reflection profiling to geomorphic problems. *In: Geoöko plus 1, 2nd International Conference on Geomorphology "Geomorphology and Geoecology"*, Frankfurt/Main, September 3-9, 1989, Abstracts of Papers and Posters, Busche, D. (ed.), v. 1, p. 237.
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#### **Workshop/Symposium Presentations - Abstracts**

24. Jol, H.M., 2018. Stratigraphic imaging of geomorphic, geologic and geoarchaeological landscapes: Greenberg Center for Judiac Studies, University of Hartford, Hartford, CT., October 18 and 19.

23. Jol, H.M., 2018. Stratigraphic imaging of geomorphic, geologic and geoarchaeological landscapes: Proceedings of the Seventeenth International Conference on Ground Penetrating Radar (GPR 2018), June 18-21, Rapperswil, Switzerland, p. 291-294.
22. Jol, H.M., 2018. Ground penetrating radar – Methods, Stratigraphy and applications: Post Graduate Program for Engineering Geologist and Geomorphologists, University of Canterbury, Christchurch, New Zealand, March 12 and 13.
21. Jol, H.M., 2017. Ground penetrating radar for the earth sciences: Geological Society of America Joint 52nd Northeastern Annual Section and 51st North-Central Annual Section Meeting, March 19-21, Pittsburgh, Pennsylvania, Abstracts with Program v. 49(2).
20. Jol, H.M., 2016. GPR Imaging of geomorphic, geologic and geoarchaeological landscapes: From data collection to basic processing to radar stratigraphic interpretation: 16<sup>th</sup> International Conference of Ground Penetrating Radar 2016 (GPR'2016), June 13-16, The Hong Kong Polytechnic University, Hong Kong.
19. Jol, H.M., 2015. Ground penetrating radar overview. Drilling and Coring Summer Institute, LacCore and the Continental Scientific Drilling Coordination Office (CSDCO), August 21, University of Minnesota, Minneapolis, MN.
18. Berry, J., Jol, H., Macaul, S., Pattee, D., Raleigh, D., and Ryberg, R., 2007. After class groups: an update. 4<sup>th</sup> Annual Teaching and Learning Symposium, University of Wisconsin-Eau Claire, August 27, Abstracts, p. 10
17. Speer, D., Larson, P.H., Jol, H.M., Faulkner, D.J., and Running IV, G.L., 2007. Post-glacial history of the Lower Chippewa Valley, western Wisconsin: a progress report. Chippewa Valley Environmental Forum, May 2, p. 10.
16. Sternberg, C., Trombly, N.R., Jol, H.M., Faulkner, D.J., 2007. Geomorphologic analysis of historical sedimentation in Half Moon Lake, Eau Claire, WI. Chippewa Valley Environmental Forum, May 2, p. 10.
15. Moore, L., Jol, H. and Kaminsky, G., 2000. Exploring correlation between shoreline progradation and climate indices, Southwest Washington. Fifth Southwest Washington Coastal Erosion Study Workshop, Olympia, WA, November 15-17, Abstracts, p. 50-51.
14. Jol, H. and Kaminsky, G., 2000. High resolution 2D and 3D ground penetrating radar datasets. Fifth Southwest Washington Coastal Erosion Study Workshop, Olympia, WA, November 15-17, Abstracts, p. 45-49.
13. Peterson, C., Jol, H., Percy, D., Phipps, J., Reckendorf, F., Vanderburgh, S. and Woxell, L., 2000. Correlation of shoreface retreat scarps, foredunes ridges, and Late-Holocene shoreline ages in the Columbia River Littoral cell, Washington-Oregon, USA. Fifth Southwest Washington Coastal Erosion Study Workshop, Olympia, WA, November 15-17, Abstracts, p. 38-41.
12. Jol, H.M., Junck, M.B., Kaminsky, G. and McCandless, D., 1999. High resolution ground penetrating radar imaging of late prehistoric and historical barrier progradation. Fourth Southwest Washington Coastal Erosion Study Workshop, Olympia, WA, November 17-19, Abstracts, p. 60-62.
11. Peterson, C., Reckendorf, R., Phipps, J., Percy, D., Vanderburgh, S., Woxell, L. and Jol, H.M., 1999. Dune ridge correlation between the Clatsop Plains and the northern subcells of the Columbia river littoral cell: late-Holocene paleo-shoreline reconstruction of SW Washington and NW Oregon, USA. Fourth Southwest Washington Coastal Erosion Study Workshop, Olympia, WA, November 17-19, Abstracts, p. 10-12.
10. Jol, H.M., Kaminsky, G. and Ruggerio, P. 1998. Recent beach progradation and high resolution ground penetrating radar lines. Southwest Washington Coastal Erosion Study Principal Investigator's Workshop, Lacey, WA, November 18-20, Abstracts, p. 20.

9. Jol, H., Peterson, C., Ruggerio, P., Vanderburgh, S. and Phipps, J. 1998. Beach morphology using ground penetrating radar. Southwest Washington Coastal Erosion Study Principal Investigator's Workshop, Lacey, WA, November 18-20, Abstracts, p. 21.
8. Jol, H., Vanderburgh, S., Peterson, C., Roberts, M., Phipps, J. 1998. Drill core correlation with ground penetrating radar profiles. Southwest Washington Coastal Erosion Study Principal Investigator's Workshop, Lacey, WA, November 18-20, Abstracts, p. 22.
7. Phipps, J., Peterson, C., Jol, H. and Vanderburgh, S. 1998. Origin and interpretation of sand dunes in the Grayland plains. Southwest Washington Coastal Erosion Study Principal Investigator's Workshop, Lacey, WA, November 18-20, Abstracts, p. 35.
6. Peterson, C., Qualman, D., Herb, A. and Jol, H. 1998. Vibracoring of surf zone deposits in Columbia River littoral cell. Southwest Washington Coastal Erosion Study Principal Investigator's Workshop, Lacey, WA, November 18-20, Abstracts, p. 36.
5. Vanderburgh, S., Roberts, M.C., Peterson, C., Jol, H.M., Phipps, J. and Herb, A. 1998. 1998 drilling program on the Columbia littoral cell: part of the southwest Washington coastal erosion study. Southwest Washington Coastal Erosion Study Principal Investigator's Workshop, Lacey, WA, November 18-20, Abstracts, p. 46.
4. Jol, H.M., 1998. Southwest Washington Coastal Erosion Study Workshop, Shilo Inn, Ocean Shores, WA, March 5-6, Abstracts, p..
3. Jol, H. 1997. Interim progress report 1997 – ground penetrating radar. Southwest Washington Coastal Erosion Study Workshop, Abstracts of Work in Progress, p. 17.
2. Phipps, J.B., Jol, H.M., Peterson, C.D. and Vanderburgh, S. 1997. The role of the 300 yr tsunami in the building of the "Big Dune" on the Grayland Plains. Southwest Washington Coastal Erosion Study Workshop, Abstracts of Work in Progress, p. 19.
1. Woxell, L.K., Jol, H., Peterson, C., Phipps, J., Reckendorf, F. and Vanderburgh, S. 1997. Columbia littoral cell prehistoric accretion rates. Southwest Washington Coastal Erosion Study Workshop, Abstracts of Work in Progress, p. 20.

#### **Student/Faculty Research Presentations (@ Undergraduate Research Conferences)**

163. Riley, M., Borella, J., and Jol, H., 2018. Anthropogenic influences on the surface expression of liquefaction: Student Research Symposium, Frontiers Abroad and the University of Canterbury, Christchurch, New Zealand, June 1.
162. Huang, A. Borella, J., Jol, H. and Faulds, J., 2018. Determining the origins of karst-related depressions in Castle Hill Basin: Student Research Symposium, Frontiers Abroad and the University of Canterbury, Christchurch, New Zealand, June 1.
161. Burds, L.T., Beck, J.D., Mataitis, R.J., Jol, H.M., Freund, R.A., McClymont, A.F., and Bauman, P., 2018. The mass grave at Kaunas Fort VII, Lithuania: Celebration of Excellence in Research and Creative Activity (26th Annual Student Research Days). University of Wisconsin-Eau Claire, May 2-3, Abstracts of Student Presentations, p. 83.
160. Mataitis, R.J., Beck, J.D., Burds, L.T., Jol, H.M., Pupienis, D., 2018. Foredune development on the Curonian Spit, Lithuania: Interpretation through ground penetrating radar and geomorphic cross-sections: Celebration of Excellence in Research and Creative Activity (26th Annual Student Research Days). University of Wisconsin-Eau Claire, May 2-3, Abstracts of Student Presentations, p. 81.
159. Beck, J.D., Burds, L.T., Mataitis, R.J., Jol, H.M., Freund, R.A., McClymont, A.F., and Bauman, P., 2018. Nazi mass execution trenches at Fort IX Kaunas, Lithuania: Celebration of Excellence in Research and Creative Activity

- (26th Annual Student Research Days). University of Wisconsin-Eau Claire, May 2-3, Abstracts of Student Presentations, p. 83-84.
158. Burds, L.T., Beck, J.D., Mataitis, R.J., Jol, H.M., Freund, R.A., McClymont, A.F., Bauman, P., and Reeder, P.P., 2018. Ground penetrating radar investigation of a mass grave and malina entrance at the HKP Site, Vilnius, Lithuania: Celebration of Excellence in Research and Creative Activity (26th Annual Student Research Days). University of Wisconsin-Eau Claire, May 2-3, Abstracts of Student Presentations, p. 82.
  157. Mataitis, R.J., Mueller, C., Jol, C.E., Jol, H.M., 2018. Geomorphic interpretation of Connor Point and Rice Point: Analysis through ground penetrating radar: Celebration of Excellence in Research and Creative Activity (26th Annual Student Research Days). University of Wisconsin-Eau Claire, May 2-3, Abstracts of Student Presentations, p. 81.
  156. Seamans, J., Wavrin, T., Erickson, J., Kleinschmidt, A., and Jol, H., 2017. Discovering a Holocaust Era Escape Tunnel: GPR investigation at Ponar, Lithuania: Celebration of Excellence in Research and Creative Activity (25<sup>th</sup> Annual Student Research Days). University of Wisconsin-Eau Claire, May 3-4, Abstracts of Student Presentations, p. 74.
  155. Kleinschmidt, A., Erickson, J., Seamans, J., Wavrin, T., and Jol, H., 2017. Locating Jacob Gens: A subsurface geophysical investigation in Rasu Prison, Vilnius, Lithuania: Celebration of Excellence in Research and Creative Activity (25<sup>th</sup> Annual Student Research Days). University of Wisconsin-Eau Claire, May 3-4, Abstracts of Student Presentations, p. 77.
  154. Erickson, J., Seamans, J., Wavrin, T., Kleinschmidt, A., and Jol, H., 2017. A ground penetrating radar investigation of archaeological sites in Varniai Regional park, Northwester Lithuania: Celebration of Excellence in Research and Creative Activity (25<sup>th</sup> Annual Student Research Days). University of Wisconsin-Eau Claire, May 3-4, Abstracts of Student Presentations, p. 75.
  153. Burds, L., Erickson, J., Seamans, J., Wavrin, T., Kleinschmidt, A., and Jol, H., 2017. Medvegalis: A GPR investigation of the Medieval Fort in Lithuania: Celebration of Excellence in Research and Creative Activity (25<sup>th</sup> Annual Student Research Days). University of Wisconsin-Eau Claire, May 3-4, Abstracts of Student Presentations, p. 77.
  152. Kleinschmidt, A., Hynek, M., Seamans, J., and Jol, H., 2017. Ground penetrating radar provides evidence for previously unrecognized Danaher Channel near Seney, MI, USA: Celebration of Excellence in Research and Creative Activity (25<sup>th</sup> Annual Student Research Days). University of Wisconsin-Eau Claire, May 3-4, Abstracts of Student Presentations, p. 76.
  151. Hynek, M., Seamans, J., Kleinschmidt, A., and Jol, H., 2017. Subsurface imaging of the Manistique Embayment, USA: Past shorelines of Lake Michigan: Celebration of Excellence in Research and Creative Activity (25<sup>th</sup> Annual Student Research Days). University of Wisconsin-Eau Claire, May 3-4, Abstracts of Student Presentations, p. 778-79.
  150. Mataitis, R., and Jol, H., 2017. Interpretation of the Duluth-Superior Barrier System: Analysis through models and ground penetrating radar data: Celebration of Excellence in Research and Creative Activity (25<sup>th</sup> Annual Student Research Days). University of Wisconsin-Eau Claire, May 3-4, Abstracts of Student Presentations, p. 76-77.
  149. Seamans, J., and Jol, H., 2017. Ground penetrating radar as a method for archaeological investigation: Rhodes, Greece: Celebration of Excellence in Research and Creative Activity (25<sup>th</sup> Annual Student Research Days). University of Wisconsin-Eau Claire, May 3-4, Abstracts of Student Presentations, p. 75.
  148. Wavrin, T., Jol, H.M. and Freund, R., 2017. Identifying the Great Synagogue of Vilna in Vilnius, Lithuania: Celebration of Excellence in Research and Creative Activity (25th Annual Student Research Days). University of Wisconsin-Eau Claire, May 3-4, Abstracts of Student Presentations, p. 76.

147. Kleinschmidt, A.S., Erickson, J.S., Seamans, J.M., Wavrin, T., Jol, H.M., Freund, R.A., and Reeder, P.P., 2016. Locating Jacob Gens: A subsurface geophysical investigation in Rasu Prison, Vilnius, Lithuania: 25th Annual EOA National McNair Research Conference and Graduate Fair, October 28-30, Delavan, WI, p. 96.
146. Wysocki, A., and Jol, H., 2016. Ground penetrating radar imaging of a strandplain along Lake Superior, Huron Mountains, Michigan, USA: 6<sup>th</sup> Annual Provost's Honors Symposium for Research, Scholarship, and Creative Activity, University of Wisconsin-Eau Claire, April 29, p. 9.
145. Seamans, J., Jol, H., Freund, R., and Reeder, P., 2016. High frequency GPR investigation at Kahal Grande, Greece: Celebration of Excellence in Research and Creative Activity (24<sup>th</sup> Annual Student Research Days). University of Wisconsin-Eau Claire, April 27-28, Abstracts of Student Presentations, p. 70.
144. Wavrin, T., Jol, H., Freund, R., and Reeder, P., 2016. Identifying the Great Synagogue of Vilnius, Lithuania with ground penetrating radar: Celebration of Excellence in Research and Creative Activity (24<sup>th</sup> Annual Student Research Days). University of Wisconsin-Eau Claire, April 27-28, Abstracts of Student Presentations, p. 70.
143. Krantz, A., Jol, H., Pingle, A., Kremmin, T., and Jol, B., 2016. Subsurface investigation of the Wisconsin Point Barrier Spit: Celebration of Excellence in Research and Creative Activity (24<sup>th</sup> Annual Student Research Days), University of Wisconsin-Eau Claire, April 27-28, Abstracts of Student Presentations, p. 72.
142. Bortolameolli, D., Degner, B., and Jol, H., 2016. Visualizing industrial organic waste located at Rib Lake, Wisconsin: A geospatial perspective and ground penetrating radar test: Celebration of Excellence in Research and Creative Activity (24<sup>th</sup> Annual Student Research Days), University of Wisconsin-Eau Claire, April 27-28, Abstracts of Student Presentations, p. 72.
141. Wavrin, T. and Jol, H., 2016. Identifying the Great Synagogue of Vilnius, Lithuania with ground penetrating radar: 2<sup>nd</sup> WiSys Quick Pitch, WiSys Technology Foundation, University of Wisconsin – Eau Claire, April 25., Program, p. 2
140. Bortolameolli, D., and Jol, H., 2015. A search for industrial waste and buried logs in Rib Lake: A ground penetrating radar test using ice as a platform. 8<sup>th</sup> Annual Wisconsin Science and Technology Symposium, University of Wisconsin – River Falls, July 27-28, Programs with Abstracts, p. 17
139. Keicher, P., Morrison, S., Jol, H., and Loope, W., 2015. Interpretation of a paleo-inlet's depositional history: A ground penetrating radar investigation, Grand Island, MI. 5<sup>th</sup> Annual Provost's Honors Symposium for Research, Scholarship, and Creative Activity, University of Wisconsin-Eau Claire, May 1, p. 16.
138. Adams, H., Olmstead, A., Morrison, S., Jol, H., and Loope, W.L., 2015. High frequency (225, 450, 900 MHz) GPR investigation of the Nipissing Beach Ridge, Huron Mountains, MI: Celebration of Excellence in Research and Creative Activity (23<sup>rd</sup> Annual Student Research Days). University of Wisconsin-Eau Claire, April 30 – May 1, Abstracts of Student Presentations, p. 62.
137. Wysocki, A., Aken, T., Morrison, S., Adams, H., Olmstead, Jol, H.M., and Loope, W.L., 2015. Ground penetrating radar imaging of a strandplain along Lake Superior, Huron Mountains, MI: Preliminary results from ground penetrating radar study: Celebration of Excellence in Research and Creative Activity (23<sup>rd</sup> Annual Student Research Days). University of Wisconsin-Eau Claire, April 30 – May 1, Abstracts of Student Presentations, p. 63.
136. Olmstead, A., Adams, H., Morrison, S., Jol, H., and Loope, W.L., 2015. "Looking deep" into a Late Holocene Lake Superior barrier: Celebration of Excellence in Research and Creative Activity (23<sup>rd</sup> Annual Student Research Days). University of Wisconsin-Eau Claire, April 30 – May 1, Abstracts of Student Presentations, p. 63.
135. Morrison, S., Jol, H., and Alger, R., 2015. Using radar stratigraphic analysis to identify erosion and deposition in the Duluth Bay Barrier, Lake Superior. Celebration of Excellence in Research and Creative Activity (23<sup>rd</sup> Annual



Student Research Days). University of Wisconsin-Eau Claire, April 30 – May 1, Abstracts of Student Presentations, p. 64.

134. Lind, C., Gugel, T., Luczak, J., Edel, C., Jol, H., and Darawsha, M., 2015. Investigating the Holy Cave of Nazareth, Israel: Celebration of Excellence in Research and Creative Activity (23<sup>rd</sup> Annual Student Research Days). University of Wisconsin-Eau Claire, April 30 – May 1, Abstracts of Student Presentations, p. 64.
133. Bortolameolli, D., Morrison, D., Jol, H., and Albrecht, A., 2015. A search for industrial waste and buried logs in Rib Lake: A ground penetrating radar test using ice as a platform. Celebration of Excellence in Research and Creative Activity (23<sup>rd</sup> Annual Student Research Days). University of Wisconsin-Eau Claire, April 30 – May 1, Abstracts of Student Presentations, p. 65.
132. Lenard, L., Schreiber, M., Carlson, B., Luczak, J., Jol, H., Wagner, A., Dunham, D., and Savage, C.E., 2015. Handheld XRF analysis of ancient pottery from Bethsaida, Israel: Celebration of Excellence in Research and Creative Activity (23<sup>rd</sup> Annual Student Research Days). University of Wisconsin-Eau Claire, April 30 – May 1, Abstracts of Student Presentations, p. 74.
131. Luczak, J., Edel, C., Jol, H., Wagner, A., and Savage, C.E., 2015: Provenance of ancient pottery from Bethsaida, Israel: Celebration of Excellence in Research and Creative Activity (23<sup>rd</sup> Annual Student Research Days). University of Wisconsin-Eau Claire, April 30 – May 1, Abstracts of Student Presentations, p. 86.
130. Carlson, B., Lenard, L., Schreiber, M., Dunham, D., Jol, H., and Wagner, A., 2015. Is X-Ray fluorescence good enough for archeologists? Celebration of Excellence in Research and Creative Activity (23<sup>rd</sup> Annual Student Research Days). University of Wisconsin-Eau Claire, April 30 – May 1, Abstracts of Student Presentations, p. 62.
129. Gugel, T., Lind, C., and Jol, H.M., 2015. Investigating the Holy Cave of Nazareth, Israel: Preliminary results: 14<sup>th</sup> Annual UW System Symposium for Undergraduate Research and Creative Activity, University of Wisconsin – Milwaukee, April 24, p. 65.
128. Luczak, J., Edel, C., Savage, C., Wagner, A., and Jol, H., 2015. Elemental analysis of ancient pottery from Bethsaida, Israel: National Conference on Undergraduate Research, Eastern Washington University, April 16-18. [online](#).
127. Morrison, S. and Jol, H.M., 2014. Interpreting historic lake levels from the internal architecture of a tombolo: A ground penetrating radar survey of the Grand Island Tombolo, MI, USA. Provost's Honors Symposium for Research, Scholarship, and Creative Activity, University of Wisconsin-Eau Claire, May 2, p. 11.
126. Jaeger, N.H., Bui, P.J., and Jol, H.M., 2014. Dropblog: An automated blog generator. Celebration of Excellence in Research and Creative Activity (22<sup>nd</sup> Annual Student Research Days). University of Wisconsin-Eau Claire, April 30 – May 1, Abstracts of Student Presentations, p. 9.
125. Jaeger, N.H., Topper, N.D., Charlton, B.G., Jol, H.M., Nobes, D., and Mahon, L., 2014. A GPR study of Edoras: A look at the braided river deposits in the upper reaches of the Rangitata Valley, New Zealand. Celebration of Excellence in Research and Creative Activity (22<sup>nd</sup> Annual Student Research Days). University of Wisconsin-Eau Claire, April 30 – May 1, Abstracts of Student Presentations, p. 10.
124. Alger, R.C., Simenson, D.L., Jol, H.M., and Breckenridge, A., 2014. Imaging the subsurface of the Duluth Bay Barrier: Duluth, MN & Superior, WI: Ground penetrating radar. Celebration of Excellence in Research and Creative Activity (22<sup>nd</sup> Annual Student Research Days). University of Wisconsin-Eau Claire, April 30 – May 1, Abstracts of Student Presentations, p. 65.
123. Charlton, B.G., Topper, N.D., Jaeger, N.H., Jol, H.M., Nobes, D., and Kennedy, D., 2014. Forever changing: The evolution of Farewell Spit. Celebration of Excellence in Research and Creative Activity (22<sup>nd</sup> Annual Student Research Days). University of Wisconsin-Eau Claire, April 30 – May 1, Abstracts of Student Presentations, p. 66.

122. Edel, C.E., Morrison, S.M., Johnston, J.W., Breckenridge, A.J., and Loope, W., 2014. Stratigraphic analysis of Lake Superior's Conway Bay Barrier using ground penetrating radar: Huron Mountains, Michigan. Celebration of Excellence in Research and Creative Activity (22<sup>nd</sup> Annual Student Research Days). University of Wisconsin-Eau Claire, April 30 – May 1, Abstracts of Student Presentations, p. 67
121. Topper, N.D., Jaeger, N.H., Charlton, B.G., Jol, H.M., and Nobes, D., 2014. Investigation of the internal stratigraphy of Alpine Fault rupture induced coastal dune formations in South Westland, New Zealand using ground penetrating radar. Celebration of Excellence in Research and Creative Activity (22<sup>nd</sup> Annual Student Research Days). University of Wisconsin-Eau Claire, April 30 – May 1, Abstracts of Student Presentations, p. 67.
120. Morrison, S.M., Jol, H.M., Loope, W., and Jol, E., 2014. Radar facies analysis of the Grand Island Tombolo. Celebration of Excellence in Research and Creative Activity (22<sup>nd</sup> Annual Student Research Days). University of Wisconsin-Eau Claire, April 30 – May 1, Abstracts of Student Presentations, p. 68.
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5. Thayer, B. and Jol, H.M., 1998. Using post-differential corrected global positioning systems in Death Valley National Park. Proceedings of the Sixth Annual University of Wisconsin-Eau Claire Student Research Day, April 27-28, p. 36.
4. Wennel, B., Havholm, K. and Jol, H.M., 1998. History of Holocene dune activity, coastal North Carolina and Virginia. Proceedings of the Sixth Annual University of Wisconsin-Eau Claire Student Research Day, April 27-28, p. 42.
3. Will, A.M. and Jol, H.M., 1998. Formation and composition of Death Valley sand dunes. Proceedings of the Sixth Annual University of Wisconsin-Eau Claire Student Research Day, April 27-28, p. 37.
2. Bartz, C. and Jol, H.M. 1997. Three-dimensional ground penetrating radar: visualization of a delta using PC based software. Proceedings of the Fifth Annual University of Wisconsin-Eau Claire Student Research Day, April 28-29, p. 24.
1. Holmes, M., Havholm, K. and Jol, H.M. 1997. Eolian dune morphology, Run Hill, North Carolina. Proceedings of the Fifth Annual University of Wisconsin-Eau Claire Student Research Day, April 28-29, p. 28.

### **Field Trip Leader/Co-Leader**

6. Vanderburgh, S, Gelfenbaum, G., Jol, H., Kaminsky, G., Peterson, C. and Phipps, J., 2003. Coastal evolution, dynamic shoreline processes, and beach management controversies of the Columbia River Littoral Cell, Southwest Washington and Northern Oregon. A Field Guide Geological Society of America 2003 Annual Meeting, Seattle Washington, Field Trip #6, October 30 – November 1.
5. Reckendorf, F., Peterson, C., Jol, H.M., Vanderburgh, S., Phipps, J., Twichell, D., and Baker, D., 2003. Holocene coastal processes in the Columbia River Cell. A Field Guide for the Northwest Cell of the Friends of the Pleistocene Field Conference, Pacific County, WA and Clatsop County, OR, Sept. 26-28.
4. Jol, H.M., 2002. Deglaciation and Holocene landscape evolution in Eastern Upper Michigan. A Field Guide for the 48<sup>th</sup> Midwest Friends of the Pleistocene Field Conference, Grand Marais and Munising, MI, May 31 – June 2.
3. Peterson, C., Baham, J., Beckstrand, D., Clough, C., Cloyd, C., Erlandson, J., Grathoff, G., Hart, R., Jol, H., Percy, D., Reckendorf, F., Rosenfeld, C., Smith, T., Phyllis Steeves, P., Stock, E., 2002. Field guide to the Pleistocene and Holocene dunal landscapes of the Central Oregon Coast: Newport to Florence, Oregon. Geological Society of America, Field Trips Guide, Cordillera Meeting, Corvallis, Oregon, 13 p. (Also, published as Virtual Field Trip)
2. Loope, W.L., Anderton, J.B., Blewett, W.L., Jol, H.M., Fisher, T.G., Johnston, J.W., Baedke, S.J., Thompson, T.A., and Arbogast, A.F., 2002. Deglaciation and Holocene landscape evolution in Eastern Upper Michigan. A Field Guide for the 48<sup>th</sup> Midwest Friends of the Pleistocene Field Conference, Grand Marais and Munising, MI, May 31 – June 2.
1. Smith, D.G., Currey, D., Oviatt, C.G. and Jol, H.M. 1997. Lake Bonneville Classic Depositional Shore Features: Geochronology, Geomorphology, Stratigraphy, and Sedimentology, Geological Society of America, Annual Meeting, Salt Lake City, UT, October 19.

## Panel Member

Jol, H.M., 2018. UHart DocFest: University of Hartford, Hartford, CT, October 18.

Jol, H.M., 2017. Special Premiere: “Holocaust Escape Tunnel”: Geological Society of America Joint 52nd Northeastern Annual Section and 51st North-Central Annual Section Meeting, March 19-21, Pittsburgh, Pennsylvania, Abstracts with Program.

Jol, H.M. 2006. Coastal photographs – developing a new coastal photo CD. Association of American Geographers, 102nd (2006) Annual Meeting, Chicago, IL, March 7-11, 2006 Annual Meeting Program, p. 156.

## Reports/Open Files

8. Jol, H. and Kaminsky, G., 2002. High resolution 2D and 3D ground penetrating radar datasets. Southwest Washington Coastal Erosion Workshop Report 2000. Edited by G. Gelfenbaum and G.M. Kaminsky, United States Geological Survey, Open-File Report 02-229: 99-104.
7. Moore, L., Jol, H. and Kaminsky, G., 2002. Exploring correlation between shoreline progradation and climate indices, Southwest Washington. Southwest Washington Coastal Erosion Workshop Report 2000. Edited by G. Gelfenbaum and G.M. Kaminsky, United States Geological Survey, Open-File Report 02-229: 105-111.
6. Peterson, C., Jol, H., Percy, D., Phipps, J., Reckendorf, F., Vanderburgh, S. and Woxell, L., 2002. Correlation of shoreface retreat scarps, foredunes ridges, and Late-Holocene shoreline ages in the Columbia River Littoral cell, Washington-Oregon, USA. Southwest Washington Coastal Erosion Workshop Report 2000. Edited by G. Gelfenbaum and G.M. Kaminsky, United States Geological Survey, Open-File Report 02-229: 75-78.
5. Jol, H.M., and Running IV, G.L. 2002. A ground penetrating radar investigation of Mound K, the West Prairie Mound Group, Fort McCoy, Monroe County, Wisconsin. A report prepared for the Department of Defense, United States Army Reserve Command, Directorate of Training and Mobilization, 36 pp, appendices and CD-ROM.
4. Viavattine, A.P., Haughton, P.V., Jol, H.M., and Running IV, G.L. 2002. A ground penetrating radar investigation of Mound B, the West Prairie Mound Group, Fort McCoy, Monroe County, Wisconsin. A report prepared for the Department of Defense, United States Army Reserve Command, Directorate of Training and Mobilization, 34 pp, appendices and CD-ROM.
3. Jol, H.M., 2000. Ground Penetrating Radar Report. *In* Cave of Letters Excavations Report for G-100/1999 and 2000 Proposal to the Antiquities Authority of Israel.
2. Reeder, P, Jol H.M., Shroder Jr., J.F., and Freund, R.A., 1999. Cave of Letters Excavations Report for G-100/ 1999. Technical Report Prepared for the Antiquities Authority of Israel. Jerusalem, Israel. 48p.
1. Pullan, S.E., Jol, H.M., Gagne, R.M. and Hunter, J.A. 1989. Compilation of high resolution "optimum offset" shallow seismic reflection profiles from the southern Fraser River Delta, British Columbia. Geological Survey of Canada, Open File No. 1992, 16 pp.

## Invited Research/University/Community Presentations (1993-2018)

Jol, H.M., 2019. The Search for the Mass Execution and Burial Site of Matilda Olkin: The Anne Frank of Lithuania: Chippewa Valley Learning in Retirement, Russell J. Rassbach Heritage Museum, Menomonie, WI, April 2.

Jol, H.M., 2019. Investigating the Sand Dunes of Antarctica: Chippewa Valley Learning in Retirement, Russell J. Rassbach Heritage Museum, Menomonie, WI, March 19.

- Jol, H.M., 2018 Biblical archaeology: Nazareth: Trinity Lutheran Lecture Series, , Eau Claire, WI, Decebmer 7 and 10.
- Jol, H.M., 2018. The Good Nazi: Chippewa Valley Learning in Retirement, Russell J. Rassbach Heritage Museum, Menomonie, WI, November 15.
- Jol, H.M., 2018. Imaging mass execution and burial sites in Lithuania: An earth science approach to Holocaust Geoarchaeology: University of Hartford President's Lecture Series, University of Hartford, Hartford, CT, October 19.
- Jol, H.M., 2018. The Good Nazi: A Wisconsin Premire: Earth Science Seminar Series & UWEC Alumni, Davies Center, University of Wisconsin-Eau Claire, Eau Claire, WI, September 28.
- Jol, H.M., 2018. Stratigraphic analysis: Using subsurface imaging to better understand geologic and geomorphic environments: Department of Geological Sciences Departmental Seminar, University of Canterbury, Christchurch, New Zealand, May 30.
- Jol, H.M., 2018. Ground penetrating radar imaging: Aeolian landscapes within Victoria Valley (Dry Valleys, Antarctica) and Davis Snowfield, Franz Josef Glacier (New Zealand): Gateway Antarctica Research Meeting, University of Canterbury, Christchurch, New Zealand, May 17.
- Jol, H.M., 2018. Imaging mass execution and burial sites in Lithuania: An earth science approach to Holocaust geoarchaeology: Research Talk, University of Canterbury, Christchurch, New Zealand, May 11.
- Jol, H.M., 2018. Ground penetrating radar applications: Case studies from geologic, geomorphic and geoarchaeological environments: Australasian Institute of Mining and Metallurgy (AusIMM), Christchurch Branch, Golders, Christchurch, New Zealand, May 10.
- Jol, H.M., 2018. Imaging the subsurface: Understanding how natural and human processes shape our present landscapes: Frontiers Abroad, University of Canterbury, Christchurch, New Zealand, March 5.
- Jol, H.M., 2017. Uncovering WWII Jewish Escape Tunnel in Lithuania's Ponar Forest: Chippewa Valley Learning in Retirement, Russell J. Rassbach Heritage Museum, Menomonie, WI, November 15.
- Jol, H.M., 2017. International Science Communication: WiSys Board of Trustees, University of Wisconsin- Eau Claire, October 11.
- Jol, H.M., Burds, L., and Beck, J., 2017. NOVA: Holocaust Escape Tunnel and Discussion. Golden Bugolds, University Alumni, University of Wisconsin-Eau Claire, September 29.
- Jol, H.M., 2017. KI at the University of Wisconsin-Eau Claire: Exploring Liberal Education, University of Wisconsin-Eau Claire, September 13.
- Jol, H.M. and Kleinschmidt, A., 2017. Uncovering WWII Jewish Escape Tunnel in Lithuania's Ponar Forest: Milwaukee Jewish Federation, Helfaere Community Service Building, May 21, Milwaukee, WI.
- Jol, H.M., 2017. From the shores of Lake Superior and Michigan: L.E. Phillips Senior Center, May 11, Eau Claire, WI.
- Jol, H.M., 2017. Research Vignettes from Lithuania II: L.E. Phillips Senior Center, April 12, Eau Claire, WI.
- Jol, H.M., and Erickson, J., 2017. Research Vignettes from Lithuania: L.E. Phillips Senior Center, March 8, Eau Claire, WI.
- Jol, H.M., 2017. The horror and hope of the Holocaust: An earth science perspective from Lithuania: Earth Science Seminar Series, Spring 2007, University of Wisconsin-Eau Claire, February 10, Eau Claire, WI.

- Jol, H.M., 2017. A Story of Horror and Hope in Lithuania: Research Vignettes from Vilnius: University of Wisconsin-Eau Claire Alumni Association Let's Do Lunch Lecture Series, Eau Claire Golf and Country Club, January 25, Eau Claire, WI.
- Jol, H.M., 2016. From the Shores of Lake Superior and the Baltic Coast to Horrors of Ponar Killing Camp: L.E. Phillips Senior Center, December 15, Eau Claire, WI.
- Jol, H.M., 2016. The Horror and Hope of the Ponar Killing Camp, Lithuania: Meals with Honors, University of Wisconsin-Eau Claire, November 15.
- Jol, H.M., 2016. A Story of Horror and Hope: Investigating the Ponar Extermination Camp and the Great Synagogue and Shulhoyf of Vilna, Lithuania: Annual Perspectives on the Baltics Lecture, Center for Russia, East Europe, and Central Asia, Center for Jewish Studies, University of Wisconsin-Madison, October 20.
- Jol, H.M., 2016. KI at the University of Wisconsin-Eau Claire: IDIS 187.206 – Exploring Liberal Education, University of Wisconsin-Eau Claire, October 13.
- Jol, H.M., 2016. Stratigraphic Analysis using ground penetrating radar: Department of Archaeology, University of Denver, September 28.
- Jol, H.M., 2016. The Use of Portable XRF in Archaeological Investigations: UWEC Student/Faculty Studies in Israel, Greece and Sicily: Materials Science Seminar Series, University of Wisconsin-Eau Claire, September 19.
- Jol, H.M., 2016. Rhodes, Greece: UWEC's Collaborative Research Project – Part 2: L.E. Phillips Senior Center, May 5, Eau Claire, WI.
- Jol, H.M., 2016. Rhodes, Greece: UWEC's Collaborative Research Project – Part 1: L.E. Phillips Senior Center, April 7, Eau Claire, WI.
- Jol, H.M., 2016. The shores of Lake Superior: L.E. Phillips Senior Center, March 3, Eau Claire, WI.
- Jol, H.M., 2016. Antarctica: Imaging the sand dunes of Victoria Valley: L.E. Phillips Senior Center, February 4, Eau Claire, WI.
- Jol, H.M., 2016. The Great Synagogue of Vilna, Ponary Extermination Camp and Baltic Coast: A collaborative research expedition: University of Wisconsin-Eau Claire Alumni Association Let's Do Lunch Lecture Series, Eau Claire Golf and Country Club, May 27, Eau Claire, WI.
- Jol, H.M., and Richardson, S., 2015. Recent Discoveries in the Holy Land: From the \_Judean hills\_ to Nazareth Mosaic to Bethsaida Pottery. L.E. Phillips Senior Center, December 4, Eau Claire, WI.
- Jol, H.M. and Bushnell, J., 2015. Ancient Refuge of the Holy Land: Cave of Letters, Israel Part 2. L.E. Phillips Senior Center, November 5, Eau Claire, WI.
- Jol, H.M. and Bushnell, J., 2015. Ancient Refuge of the Holy Land: Cave of Letters, Israel Part 1. L.E. Phillips Senior Center, October 8, Eau Claire, WI.
- Jol, H.M., 2015. Imaging the Subsurface: Examples from Archaeological Sites in Israel. Eau Claire Noon Kiwanis Club, Eau Claire Golf and Country Club, August 27, Eau Claire, WI.
- Jol, H.M., 2015. Imaging the Shores of Lake Superior: From Duluth to the Huron Mountains to Pictured Rocks. University of Wisconsin-Eau Claire Alumni Association Let's Do Lunch Lecture Series, Eau Claire Golf and Country Club, May 27, Eau Claire, WI.

- Jol, H.M. and Bushnell, J., 2015. Galilee Landscape. L.E. Phillips Senior Center, May 12, Eau Claire, WI.
- Jol, H.M. and Morrison, S., 2015. Subsurface imaging of Lakes Superior's coastal deposits: Examples from the Duluth Barrier, Grand Island, and the Huron Mountains: University of Minnesota, Duluth, Department of Geology Seminar Seminar Series, March 12, Duluth, MN.
- Jol, H.M. and Bushnell, J., 2015. Bethsaida Revealed. L.E. Phillips Senior Center, April 14, Eau Claire, WI.
- Jol, H.M. and Bushnell, J., 2015. Unearthing Bethsaida. L.E. Phillips Senior Center, March 10, Eau Claire, WI.
- Jol, H.M. and Bushnell, J., 2015. Explorations at Qumran, Israel: Site of the Dead Sea Scrolls. L.E. Phillips Senior Center, March 10, Eau Claire, WI.
- Jol, H.M., 2015. Rhodes, Greece: Imaging the Past. University of Wisconsin-Eau Claire Alumni Association Let's Do Lunch Lecture Series, Eau Claire Golf and Country Club, February 26, Eau Claire, WI.
- Jol, H.M. and Bushnell, J., 2014. Looking into the Western Wall, Jerusalem, Israel. L.E. Phillips Senior Center, December 8, Eau Claire, WI.
- Jol, H.M., 2014. What's beneath the surface? Using ground penetrating radar to better understand geomorphic environments: Examples from around the world. School of Earth Science and Geological Engineering, Sun Yat-Sen University, June 10, Guangzhou, China.
- Jol, H.M. and Freitas, S., 2014. From Middle Earth and Beyond: Investigating New Zealand's South Island through UW-Eau Claire's International Fellows Program. University of Wisconsin-Eau Claire Alumni Association Let's Do Lunch Lecture Series, May 28, Eau Claire, WI.
- Jol, H.M. and Bushnell, J., 2014. New discoveries in Nazareth: Mary's Well. L.E. Phillips Senior Center, April 17, Eau Claire, WI.
- Jol, H.M. & Goettl, M., 2014. UWEC Research in Israel: Update. University of Wisconsin-Eau Claire Alumni Association Let's Do Lunch Lecture Series, January 30, Eau Claire, WI.
- Jol, H.M., 2008. Biblical Archaeology. "Ask a Scientist!" Series, September 23, Acoustic Café, Eau Claire, WI.
- Jol, H.M., 2008. Graves, caves, and cities: biblical archaeology explorations in Israel. Primetime Friends (Seniors), First Congregational, May 21, Eau Claire, WI.
- Jol, H.M. 2008. Research in Antarctica. Roosevelt Elementary School presentation, February 8, Eau Claire, WI.
- Jol, H.M. 2007. Antarctica: Imaging sand dunes of in the McMurdo Dry Valleys. Department of Earth Sciences Lecture Series, November 26, Simon Fraser University, Burnaby, BC, Canada.
- Jol, H.M. 2007. Investigating the Sand Dunes of Antarctica. University of Wisconsin-Eau Claire Alumni Association Let's Do Lunch Lecture Series, May 30, Eau Claire, WI.
- Jol, H.M., 2007. Archaeological adventures in Israel: Searching the past, Looking into the Future. Plymouth United Church of Christ, May 16, Eau Claire, WI.
- Jol, H.M. 2007. Maps! Roosevelt Elementary School presentation, May 9, Eau Claire, WI.
- Jol, H.M., 2007. Antarctica: Imaging sand dunes of Victoria Valley. Community Presentation, University of Wisconsin-Eau Claire, February 25.

- Jol, H.M., 2007. Antarctica (Event K015): Imaging sand dunes of Victoria Valley. Earth Science Seminar Series, Spring 2007, University of Wisconsin-Eau Claire, January 26.
- Jol, H.M. 2007. Adventures in Antarctica! Roosevelt Elementary School presentation, January 19, Eau Claire, WI.
- Jol, H.M. 2007. Adventures in Antarctica! Midelfort Luther Childcare Center presentation, January 19, Eau Claire, WI.
- Jol, H.M., 2007. Recent archaeological adventures in Israel: Searching the past, Looking into the Future. Lake Street United Methodist Women, January 9, Eau Claire, WI.
- Jol, H.M., 2006. Recent archaeological adventures in Israel: Searching the past, Looking into the Future. Lake Street Men's Group, September 16, Eau Claire, WI.
- Jol, H.M. and Pascal, E., 2006. Recent archaeological adventures in Israel: Searching the past, Looking into the Future. Eau Claire Rotary Guest Speaker, August 21, Eau Claire, WI.
- Jol, H.M., 2006. Find the right spot! Geophysical investigations in Israel. University of South Florida Departments of Geography, Anthropology and Geology – Evening of Invited Talks – “From the Cave of Letters to Qumran: Geoarchaeological Research in the Holyland”, February 22.
- Jol, H.M., 2006. What's beneath the surface? Using GPR to better understand geomorphic and archaeological sites: Examples from USA, Canada, Israel, New Zealand, and Australia. University of South Florida Departments of Geography and Anthropology Seminar Series, February 22.
- Dalenta, C. and Jol, H.M., 2005. Holy Sites/Sights: Photography, Archaeology, Earth Science. Earth Science and Geography Seminar Series, Fall 2005, University of Wisconsin-Eau Claire, December 2.
- Jol, H.M., 2005. What's beneath the surface? Using GPR to better understand geomorphic and archaeological sites: Examples from USA, Canada, Israel, Australia, New Zealand and France, Quaternary Paleoecology Seminar Series, University of Minnesota, November 2.
- Jol, H.M. 2005. Archaeological Explorations in Israel. Chippewa Valley Museum Lecture Series, May 14, Eau Claire, WI.
- Ihinger, P., and Jol, H.M. 2005. Tsunamis and Earthquakes: A Dynamic Earth. Menomonie Area Science Forum, The Wisconsin Society of Science, March 30, Menomonie, WI.
- Jol, H.M., 2005. What's beneath the surface? Using GPR to better understand archaeological and geomorphic sites: Examples from USA, Israel and New Zealand. Departments of Geology and Archaeology Lecture Series, Oberlin College, February 24.
- Ihinger, P., and Jol, H.M. 2005. Tsunamis and Earthquakes: A Dynamic Earth. University of Wisconsin-Eau Claire Alumni Association Let's Do Lunch Lecture Series, February 23, Eau Claire, WI.
- Jol, H.M. 2005. Finding the Right Spot! Geoarchaeological Research from Fort McCoy, WI to Qumran, Israel. Eau Claire Rotary Guest Speaker, January 24, Eau Claire, WI.
- Jol, H.M. 2004. Geoarchaeological Adventures in the Holy Land. University of Wisconsin-Eau Claire Alumni Association Let's Do Lunch Lecture Series, December 29, Eau Claire, WI.
- Jol, H.M., 2004. Is this where Jesus bathes? Recent investigations at a bathhouse in Nazareth, Israel.. Breakfast with a Professor, University Honors Program, Eau Claire, WI, November 23.

- Jol, H.M., 2004. Graves, Caves and Cities: Recent Biblical Archaeology Explorations in Israel. First Lutheran Seminar Series, Eau Claire, WI, Oct. 9.
- Jol, H.M., 2004. Mega-Earthquakes, El Nino and Archaeology along the Columbia River Littoral Cell, Pacific Northwest, USA. Earth Science Seminar Series, University of Wisconsin-Eau Claire, October 8.
- Jol, H.M., 2004. What's beneath the surface? Using ground penetrating radar to better understand geomorphic and archaeological sites: Examples from USA, Israel & New Zealand. Department of Geosciences Colloquium Series, University of Wisconsin-Milwaukee, April 23.
- Jol, H.M., 2004. Who is buried at Qumran? Site of the Dead Sea Scrolls discovery (& other questions from Biblical archaeological sites in Israel). First Fridays, University of Wisconsin-Eau Claire, April 2.
- \*Jol, H.M., 2004. What's beneath the surface? Using ground penetrating radar to better understand geomorphic and archaeological sites: Examples from USA, Israel & New Zealand. Department of Earth, Ecological and Environmental Sciences Seminar Series, University of Toledo, March 26.
- Jol, H.M., 2004. Looking into the subsurface at Biblical sites, Israel. University of Wisconsin-Eau Claire Christian Network Forum, Eau Claire, WI, March 11.
- Jol, H.M., 2004. Noninvasive imaging of archaeological significant sites in Israel: Qumran, Cave of Letters, and Bethsaida. Department of Geophysics Seminar Series, Stanford University, Palo Alto, CA, March 4.
- Jol, H.M., 2004. Looking for archaeological significant caves and graves: examples from Israel (Qumran), Wisconsin (Fort McCoy) & New Zealand (Maori). Physical Geography Seminar Series, University of Wisconsin-Eau Claire, Eau Claire, WI, February 13.
- Jol, H.M., 2004. What's beneath the surface? Using ground penetrating radar (GPR) to better understand coastal deposits and archaeological sites. Spring 2004. Department of Geological Sciences Seminar Series, University of Minnesota, Duluth, February 5.
- Jol, H.M., 2003. In search of Dead Sea scrolls and graves, Qumran, Israel. Department of Archaeology Seminar Series, Simon Fraser University, Burnaby, British Columbia, Canada, November 6.
- Jol, H.M., 2003. What's under the beach? Visualizing the subsurface using ground penetrating radar. King Fisher Resort and Village, Fraser Island, Australia, KFRV Seminar Series.
- Jol, H.M., 2003. GPR and the Physical Environment – Investigations into glacial, aeolian, fluvial and coastal environments. Department of Geography Seminar Series, University of Canterbury, Christchurch, New Zealand, April 30.
- Jol, H.M., 2003. Field applications of GPR in archaeology (Cave of Letters, Israel) and geomorphology (tectonic coastal USA). Geological Society of New Zealand (Canterbury Branch), Christchurch, New Zealand, April 29.
- Jol, H.M., 2003. In search of Dead Sea scrolls and graves, Qumran, Israel. Department of Geological Sciences Seminar Series, University of Canterbury, Christchurch, New Zealand, March 26.
- Jol, H.M., 2002. Ground penetrating radar in sediments. Department of Geology and Geophysics Lecture Series, University of Wisconsin-Madison, Madison, WI, December 12.
- Jol, H.M., 2002. Looking for caves and graves at Qumran, Israel: a ground penetrating radar perspective. Madison Biblical Archaeology Society Lecture Series, University of Wisconsin-Madison, Madison, WI, December 11..



- Jol, H.M., 2002. Using ground penetrating radar in search of caves and graves along the Dead Sea Trench, Israel, University of Calgary Lecture Series, Calgary, AB, September 18.
- Jol, H.M., 2002. Investigations in Israel. The News, Affiliation of Christian Geologists, Summer, p. 4.
- Jol, H.M., 2002. Looking for caves and graves at Qumran, Israel. EKKO Update, Sensors and Software, June, p.1-2.
- Jol, H.M., 2002. Investigations at the Cave of Letters, Israel. University of Wisconsin-Eau Claire Alumni Luncheon Guest Speaker, University Retired Faculty, Eau Claire, WI, May 9.
- Jol, H.M., 2002. Ground penetrating results at the Qumran, Israel. Part of panel discussing the “The Results of the Dead Sea Scrolls Excavation, Qumran 2001”, California State University-Long Beach, Long Beach, CA, May 3
- Jol, H.M., 2002. Return to the Cave of Letters – The Movie. Faculty Research Forum, University of Wisconsin – Eau Claire, Eau Claire, WI, February 13.
- Jol, H.M., 2002. Return to the Cave of Letters – The Movie. Pizza with a Professor, Honors Program, University of Wisconsin – Eau Claire, Eau Claire, WI, April 19.
- Jol, H.M., 2002. Return to the Cave of Letters – The Movie. Geography Club Presentation, University of Wisconsin – Eau Claire, Eau Claire, WI, April 18.
- Jol, H.M., 2001. Cave of Letters, Israel. Association of Christian Geologists, Geological Society of America Annual Meeting Boston, MA, November 6.
- Jol, H.M., 2001. Cave of Letters. GTU Dinner Speaker, University of Wisconsin-Eau Claire, May.
- Jol, H.M., 2001. Cave of Letters, Israel. Lake Street United Methodist Church Lecture Series, May.
- Jol, H.M., 2001. Resumes and Cover Letters. Geography Club, University of Wisconsin-Eau Claire, May.
- Jol, H.M., 2001. Adventures from Down Under. Geography Club, University of Wisconsin-Eau Claire, May.
- Jol, H.M., 2001. Cave of Letters. Breakfast with Professor, Honors Program, University of Wisconsin-Eau Claire, March 13.
- Jol, H.M., 2001. Ground penetrating radar: methodology and applications. Spring 2001 Department of Geological Sciences Seminar Series, University of Minnesota, Duluth, March 8.
- Jol, H.M., 2000. Dunes, coasts and caves: ground penetrating radar studies. VU (Free University), Amsterdam, The Netherlands, October 6
- Jol, H.M. 2000. Ground Penetrating Radar: Planes, Tanks, FBI, Rivers and Lakes. Chippewa County In-service Training Lecture Series. Chippewa Falls, WI, January 17.
- Jol, H.M. 1999. Return to the Cave of Letters (Israel): a GPR perspective. Faculty Research Forum, University of Wisconsin – Eau Claire, Eau Claire, Wisconsin, November 10.
- Jol, H.M. and Mahoney, B., 1999. Update on the computers. Faculty Research Forum, University of Wisconsin – Eau Claire, Eau Claire, Wisconsin, May 2.
- Jol, H.M. 1998. Ground penetrating radar: bodies, planes, peat bogs and coasts. University of Wisconsin-Eau Claire Honors Class Lecture Series, Eau Claire, WI, October 22.

- Jol, H.M. 1998. Progress report of ground penetrating radar research along the West Coast. City of Long Beach Community Awareness Lecture Series, Long Beach City Hall, Long Beach, WA, August 5.
- Jol, H.M. 1998. Progress report of ground penetrating radar research along the West Coast. Columbia River Estuary Study Taskforce (CREST) Public Lecture Series, Astoria Maritime Museum, Astoria, Oregon, August 4.
- Jol, H.M. 1998. Remote sensing update for teachers of Wisconsin. Wisconsin Geographic Alliance, University of Wisconsin-Eau Claire, Wisconsin, June 19.
- Jol, H.M. 1998. Geographic information systems (GIS) update for teachers of Wisconsin. Wisconsin Geographic Alliance, University of Wisconsin-Eau Claire, Wisconsin, June 19.
- Jol, H.M. 1998. Ground penetrating radar: methodology and applications. Department of Geosciences Lecture Series, Indiana University Northwest, Gary, Indiana, April 10.
- Jol, H.M. 1998. Ground penetrating radar: methodology and applications. Department of Geology Lecture Series, University of Illinois – Chicago, Chicago, Illinois, April 9.
- Jol, H.M. 1998. Ground penetrating radar: methodology and applications. Department of Geology Lecture Series, University of South Florida, Tampa, Florida, March 18.
- Jol, H.M. 1998. Ground penetrating radar: methodology and applications. Coastal and Marine Division, United States Geological Survey, St. Petersburg, Florida, March 17.
- Jol, H.M. 1998. Ground penetrating radar results - SW coastal erosion program. SW Coastal Erosion Program Workshop, Ocean Shores, Washington, March 6.
- Jol, H.M. 1998. Ground penetrating radar: methodology and applications. Faculty Research Forum, University of Wisconsin – Eau Claire, Eau Claire, Wisconsin, February 18.
- Jol, H.M. 1997. Ground penetrating radar: methodology and applications. Jonathan O. Davis Colloquium Series, Quaternary Sciences Center of the Desert Research Institute, Reno, Nevada, December 15.
- Jol, H.M. 1997. Ground penetrating radar results - SW coastal erosion program. SW Coastal Erosion Program Workshop, Department of Ecology, Lacey, Washington, November 21.
- Jol, H.M. 1997. Ground penetrating radar: methodology and applications. Center for Geophysical Investigation of the Shallow Subsurface, Boise State University, June 26.
- Jol, H.M. 1997. Ground penetrating radar: methodology and applications. University of Calgary, Alberta, April 22.
- Jol, H.M. 1996. Ground penetrating radar of Quaternary Environments. Pacific Geoscience Centre, Geological Survey of Canada, Sydney, British Columbia, May 24.
- Jol, H.M. 1996. Ground penetrating radar: coastal environments. University of Wisconsin-Eau Claire, Wisconsin, April 25.
- Jol, H.M. 1996. Environmental hazards: debris flows in mountainous terrain. University of Wisconsin-Eau Claire, Wisconsin, April 25.
- Jol, H.M. 1996. Ground penetrating radar: applications in Quaternary studies. University College of the Fraser Valley, British Columbia, March 1.

- Jol, H.M. 1996. Jobs in physical geography: a geomorphologist's perspective. Trinity Western University, Langley, British Columbia, February 29.
- Jol, H.M. 1996. Ground penetrating radar: a new approach to the earth sciences. Western Michigan University, Kalamazoo, Michigan, February 19.
- Jol, H.M. 1996. Geotechnical aspects of debris flows in mountainous terrain. University of New Brunswick, Fredericton, New Brunswick, February 8.
- Jol, H.M. 1996. Ground penetrating radar: a new approach to the earth sciences. University of New Brunswick, Fredericton, New Brunswick, February 9.
- Jol, H.M. 1995. Ground penetrating radar: a new approach to the earth sciences. Douglas College, New Westminster, British Columbia, December 5.
- Jol, H.M. 1995. GPR: An effective geophysical approach for selected geologic environments. University of British Columbia, Department of Geology and Geophysics, November 2.
- Jol, H.M. 1995. Ground penetrating radar: applications and analogues for oil and gas exploration. Ulster Petroleum, Inc., Burnaby, British Columbia, October 25.
- Jol, H.M. 1995. Ground penetrating radar: a new approach to the earth sciences. The University of Utah, Salt Lake City, Utah, October 23.
- Jol, H.M. 1995. Ground penetrating radar: application to geomorphic and Quaternary problems. Institute for Quaternary Research, Simon Fraser University, Burnaby, British Columbia, April 7.
- Jol, H.M. 1995. Ground penetrating radar: a research summary. Jacksonville University, Jacksonville, Florida, April 11.
- Jol, H.M. 1995. Geotechnical aspects of debris flows in mountainous terrain. Jacksonville University, Jacksonville Florida, April 11.
- Jol, H.M. 1995. Ground penetrating radar: a new approach to the earth sciences. The University of West Florida, Pensacola, Florida, April 12.
- Jol, H.M. 1995. GIS: Data Quality. The University of West Florida, Pensacola, Florida, April 13.
- Jol, H.M. 1995. Ground penetrating radar: a new approach to the earth sciences. University of Toronto, Toronto, Ontario, April 6.
- Jol, H.M. 1995. Geotechnical aspects of debris flows in mountainous terrain. University of Toronto, Toronto, Ontario, April 5.
- Jol, H.M. 1995. Application of geophysical methods to environmental and geomorphic problems. Indiana University, Bloomington, Indiana, March 23.
- Jol, H.M. 1995. Ground penetrating radar: a new approach to the earth sciences. Indiana University, Bloomington, Indiana, March 22.
- Jol, H.M. 1995. Ground penetrating radar: a new approach to the earth sciences. University College of the Fraser Valley, Abbotsford, British Columbia, March 15.
- Smith, D.G. and Jol, H.M. 1994. Ground-penetrating radar (GPR): applications to coastal plain sedimentology and depositional models. Exxon Production Research, Houston, Texas, Feb.

Jol, H.M. 1993. 25 MHz example from Utah. Sensors and Software Inc., EKKO Update, April.

Jol, H.M. 1993. Ground penetrating radar. Can. Assoc. of Geog. (WD), Newsletter, January, p.1.

Jol, H.M. 1993. Ground penetrating radar: recent results. Presentation for FATS (Friday Afternoon Talks), Department of Geology and Geophysics, University of Calgary, January 22.

### **Newsletters**

Editor for the Coastal Letters – the newsletter of the Coastal and Marine Geography Specialty Group of the Association of America Geographers (from 1997 – 2002)

### **Newspaper and Website Articles (reporting about research and teaching)**

*- available upon request*

### **Videos & Books (that research is presented in)**

Associated Producers, 2108. The Good Nazi.

NOVA Productions, 2017. Holocaust Escape Tunnel, Public Broadcasting Corporation.

Freund, R.A., 2012. Digging through History: Archaeology and Religion from Atlantis to the Holocaust: Rowan and Littlefield Publishers, 278 p.

Freund, R.A., 2008. Digging through the Bible: Understanding Biblical People, Places, and Controversies through Archaeology: Rowan and Littlefield Publishers, 352 p.

NOVA Productions, 2005. Ancient Refuge in the Holy Land, Public Broadcasting Corporation.

Freund, R.A., 2004. Secrets of the Cave of Letters: Rediscovering a Dead Sea Mystery: Humanity Books.

Milone, C., 2001. Return to the Cave of Letters, University of Nebraska at Omaha Public Television

Wessells, S.M., Gelfenbaum, G., Kaminsky, G., 1998. At ocean's edge: coastal change in Southwest Washington, Washington State Department of Ecology, coastal Monitoring and Analysis Program, Publication No. 98-116 (video), 20 min.

### **DataSets**

The Southwest Washington Coastal Erosion Study: Catalog of Data Sets, 1999. Ground penetrating radar datasets 1996, 1997, 1998. p. 35-36.

### **RESEARCH AND ACADEMIC SUPPORT & CONTRACTS**

2019	International Fellows program (UWEC) - Lithuania
2019	Binational Science Foundation with University of Haifa – Tel Akko
2018/19	Student/Faculty Collaboration Grant, UWEC (Bergevin)
2018/19	Student/Faculty Collaboration Grant, UWEC (Blouin)
2018/19	Student/Faculty Collaboration Grant, UWEC (Schneider)
2018/19	Student/Faculty Collaboration Grant, UWEC (Beck)
2018	International Fellows Program (UWEC) – Lithuania (Vilnius, Rokiskis, Neolithic, Baltic Coast) (Kofman, Fuerstenberg, Beck & Schneider)

2018	Summer Research Experiences for Undergraduates (UWEC) – GPR Processing – Lithuania (Beck & Schneider)
2018	Binational Science Foundation with University of Haifa – Tel Akko
2018	Erskine Fellowship, University of Canterbury, New Zealand
2018	Department of Geological Sciences, University of Canterbury, New Zealand
2017/18	Student/Faculty Collaboration Grant, UWEC (Burds)
2017/18	Student/Faculty Collaboration Grant, UWEC (Mataitis)
2017/18	Student/Faculty Collaboration Grant, UWEC (Beck)
2017/18	Binational Science Foundation (with University of Haifa)
2017/18	University Research and Creative Activity Grant - UW-Eau Claire
2017/18	Guest Lecturers, Artists, and Other Professionals, ORSP Grant – UW-Eau Claire
2017	International Fellows Program (UWEC) – Lithuania (Vilnius, Kaunas, Neolithic, Baltic Coast)
	(Burds, Mataitis, Beck, Erickson)
2017	US State Department, Lithuania
2017	Kaunas and Vilnius, Lithuania – University of Hartford
2017	Summer Research Experiences for Undergraduates (UWEC) – Coastal (Mataitis)
2017	Nazareth, El Araj, Mt Zion, Israel – University of Hartford
2017	Student/Faculty Collaboration Grant, UWEC (Mataitis)
2016/17	Student/Faculty Collaboration Grant, UWEC (Seamans)
2016/17	Student/Faculty Collaboration Grant, UWEC (Stilson/Burds)
2016/17	McNair Scholar (UWEC) – Rasu Prison, Lithuania (Kleinschmidt)
2016/17	Student/Faculty Collaboration Grant, UWEC (Erickson)
2016/17	Diversity Mentoring Grant, UWEC (Kleinschmidt)
2016/17	Guest Lecturers, Artists, and Other Professionals, ORSP Grant – UW-Eau Claire
2016	International Fellows Program (UWEC) – Lithuania (Vilnius, Ponar Extermination Camp, Baltic Coast) (Seamans, Kleinschmidt, Erickson, Wavrin)
2016	Summer Research Experiences for Undergraduates (UWEC) - Geoarchaeology
2016	Summer Research Experiences for Undergraduates (UWEC) - Michigan
2016	Rhodes, Greece – University of Hartford
2015/16	Guest Lecturers, Artists, and Other Professionals, ORSP Grant – UW-Eau Claire
2015	McNair Scholar (UWEC) – Rib Lake
2015	Student/Faculty Collaboration Grant, UWEC
2015	US State Department, Vilnius, Lithuania
2015	Huron Mountain Wildlife Foundation - Michigan
2015	University Research and Creative Activity Grant - UW-Eau Claire
2015	Summer Research Experiences for Undergraduates (UWEC) - Wisconsin
2015	Summer Research Experiences for Undergraduates (UWEC) - Michigan
2015	Lake Bonneville, University of Utah
2015	Northern Israel, University of Hartford
2015	Greece, Rhodes, University of Hartford
2014/15	Guest Lecturers, Artists, and Other Professionals, ORSP Grant – UW-Eau Claire
2014	Lake Bonneville, University of Utah
2014	Student/Faculty Collaboration Grant, UWEC
2014	International Fellows Program (UWEC) - Israel (Nazareth, Bethsaida, Tel Akko, Tel Regev, Kursi)
2014	Huron Mountain Wildlife Foundation - Michigan
2014	Summer Research Experiences for Undergraduates (UWEC) - Michigan
2014	UW System Waste Manage Grant – Rib Lake
2014	Summer Research Experiences for Undergraduates (UWEC) – Michigan
2014	Special Call: Undergraduate Research Experience (UWEC)
2014	International Fellows Program (UWEC) - New Zealand (South Island – Haast, Farewell Spit, Ashburton Lakes)
2013/14	Guest Lecturers, Artists, and Other Professionals, ORSP Grant – UW-Eau Claire

2013	Huron Mountain Wildlife Foundation - Michigan
2013	Faculty/Student Collaboration Grant University of Wisconsin-Eau Claire
2013	Summer Research Experiences for Undergraduates (UWEC) - Michigan
2013	Summer Research Experiences for Undergraduates (UWEC) - Minnesota
2013	University Research and Creative Activity Grant - UW-Eau Claire
2012/13	Guest Lecturers, Artists, and Other Professionals, ORSP Grant – UW-Eau Claire
2012	Nazareth Excavations Project (Israel), University of Hartford
2012	Huron Mountain Wildlife Foundation - Michigan
2012	Faculty/Student Collaboration Grant University of Wisconsin-Eau Claire
2011/12	Guest Lecturers, Artists, and Other Professionals, ORSP Grant – UW-Eau Claire
2011	United States Geology Survey – Upper Peninsula, Michigan
2008	United States Geological Survey – Sand Point (with University of Toledo)
2008	Louisiana State University – Gulf Coast
2008	Summer Research Experiences for Undergraduates (UWEC) - Michigan
2008	Summer Research Experiences for Undergraduates (UWEC) - Chippewa
2008	University of Nebraska at Omaha – Himalayan Workshop
2007	Faculty/Student Collaboration Grant University of Wisconsin-Eau Claire (x3)
2007	Peatland Geophysics Workshop (NSF -Rutgers University)
2007	University Research and Creative Activity Grant - UW-Eau Claire
2007	Summer Research Experiences for Undergraduates (UWEC) - Israel
2007	Summer Research Experiences for Undergraduates (UWEC) - Chippewa
2007	Solid Waste Research Program (UW-System)
2007	Birbeck – University College of London
2007	Mount Sinai (Negev, Israel) Research Expedition
2007	University of Hartford
2007	Half Moon Lake Outlet Project – City of Eau Claire
2007	UWEC – Israel
2006	UWEC - Office of Research and Sponsored Programs –Antarctica
2006	UWEC – Provosts Office - Antarctica
2006	University of Auckland
2006	Antarctica New Zealand
2006	University of Auckland
2006	Lesson Study Training Grant Award
2006	Portland State University
2006	Oregon Department of Geology and Mineral Industries
2006	Faculty/Student Collaboration Grant University of Wisconsin-Eau Claire (x2)
2006	Summer Research Experiences for Undergraduates (UWEC)
2006	UWEC – Foundation
2006	Foundation Stone – Yavne, Israel
2006	University of Hartford - Israel
2005	United States Fish and Wildlife
2005	Faculty/Student Collaboration Grant University of Wisconsin-Eau Claire
2005	United States Geological Survey (USGS - W. Loope)
2005	Summer Research Experiences for Undergraduates (UWEC)
2005	University Research and Creative Activity Grant - UW-Eau Claire
2005	Foundation Stone – Yavne, Israel
2005	University of Hartford - Israel
2004	Faculty/Student Collaboration Grant University of Wisconsin-Eau Claire
2004	Sea Grant, University of Toledo, OH (T. Fisher)
2004	United States Geological Survey (USGS - W. Loope)
2004	Natural Sciences and Engineering Research Council (NSERC - D.G. Smith)
2004	Summer Research Experiences for Undergraduates (UWEC)
2004	University Research and Creative Activity Grant - UW-Eau Claire
2004	Mitchum Law Firm

2003 Foundation Stone - Yavne  
 2003 University Research and Creative Activity Grant - UW-Eau Claire  
 2003 Faculty/Student Collaboration Grant University of Wisconsin-Eau Claire  
 2003 University of Hartford - Israel  
 2003 Mitchum Law Firm  
 2003 Summer Research Experiences for Undergraduates (UWEC)  
 2002 John F. Merrill, Jr. Multi-Site Archaeological Project Israel 2002 Season  
 2002 University Research and Creative Activity Grant - UW-Eau Claire  
 2002 Geographix Software Grant  
 2002 Academic Affairs Professional Development Grant – Guest Speaker Program  
 2002 Faculty/Student Collaboration Grant University of Wisconsin-Eau Claire (x 2)  
 2002 University of Nebraska - Omaha, Bethsaida, Israel  
 2002 University of Hartford - Israel  
 2002 Ayres and Associates – GPR Testing of Wastewater Site  
 2002 Summer Research Experiences for Undergraduates (UWEC)  
 2002 Sea Grant – Oregon Paleo-Dune Study  
 2002 United States Geological Survey (Michigan)  
 2002 UWEC Sabbatical  
 2002 Sea Grant – Oregon Dune Aquitard Study  
 2001 John F. Merrill, Jr. Multi-Site Archaeological Project Israel 2001 Season  
 2001 University Research and Creative Activity Grant - UW-Eau Claire  
 2001 Faculty/Student Collaboration Grant University of Wisconsin-Eau Claire (x 2)  
 2001 University of Nebraska - Omaha, Bethsaida, Israel  
 2001 University College of the Fraser Valley, Abbotsford, Canada – Dune Study  
 2001 United States Geological Survey – Coastal Erosion Study  
 2001 Summer Research Experiences for Undergraduates (UWEC)  
 2001 Sea Grant – Oregon Paleo-Dune Study  
 2001 United States Geological Survey (Michigan)  
 2000 John F. Merrill, Jr. Expedition to the Cave of Letters 2000 Season  
 2000 Summer Research Experiences for Undergraduates (UWEC)  
 2000 United States Geological Survey (Michigan)  
 2000 United States Department of Agriculture (Minnesota)  
 2000 Minnesota Department of Transportation  
 2000 University Research and Creative Activity Grant - UW-Eau Claire  
 1999 Small Research Grant - UW-Eau Claire - Equipment Rental - Israel  
 1999 Faculty/Student Collaboration Grant University of Wisconsin-Eau Claire - Junck  
 1999 University of Wisconsin-Eau Claire - Arts and Science - Dean's Office -  
 Computer for 3D Visualization  
 1999 University of Wisconsin-Eau Claire - Office of University Research  
 Computer for 3D Visualization  
 1999 University of Nebraska - Omaha, Cave of Letters Expedition, Israel  
 1999 Geographix Software Grant  
 1999 Washington Department of Ecology (Shorelands) - High Resolution - GPR  
 1999 US Geological Survey - National Coastal Program (with C. Peterson/PSU)  
 1999 University Research and Creative Activity Grant - UW-Eau Claire  
 1999 Fort McCoy - Native Burial Mound Investigations  
 1999 Faculty/Student Collaboration Grant University of Wisconsin-Eau Claire (x 2)  
 1999 Summer Research Experiences for Undergraduates (UWEC)  
 1998 Summer Research Experiences for Undergraduates (UWEC)  
 1998 University Research and Creative Activity Grant - UW-Eau Claire  
 1998 Fort McCoy – Native Burial Mound Investigations  
 1998 Apostle Islands National Lakeshore  
 1998 US Geological Survey - National Coastal Program (with C. Peterson/PSU)  
 1998 Faculty/Student Collaboration Grant University of Wisconsin-Eau Claire (x 2)

1997/98	Funding for Notebook PC's in Capstone Courses (UWEC)
1997	US Geological Survey - National Coastal Program (with C. Peterson/PSU)
1997	Apostle Islands National Lakeshore
1997	North Carolina Division of Parks and Recreation (with K. Havholm, UWEC)
1997	Summer Research Experiences for Undergraduates (UWEC)
1997	Student Travel for Presentation (UWEC)
1997	Laboratory Renewal Funding, University of Wisconsin - System
1997	University Research and Creative Activity Grant - UW-Eau Claire
1997	Small Research Grant (UWEC)
1997	Faculty/Student Collaboration Grant University of Wisconsin-Eau Claire (x 3)
1996	US Geological Survey - National Coastal Program (with C. Peterson/PSU)
1996	Geological Survey of Canada - Brookwood Aquifer Characterization
1996	Faculty/Student Research Collaboration - (UWEC)
1995	Exxon Production Research - GPR - Processing - Utah
1995	Exxon Production Research - Oil and Gas Reservoir Modeling - Utah
1995	Frontier Geophysics - GPR - Environmental Testing
1995	Geological Survey of Canada - Brookwood Aquifer Characterization
1995	University of Northern British Columbia - Fluvial/Salmon Habitat
1994	University of Illinois (Geosciences) - Fluvial
1994	Komex, International - Environmental Spill
1993	University of Calgary Post-Doctoral Fellowship Research Grant
1993	University of South Florida (Marine Science) - GPR - Deltaic Study
1993	Eagle Resources - Platform Assessment
1993	Carnaghan Limited - Placer Exploration
1992	Killam Scholarship Research Allowance
1992/91/90	Northern Science Training Program (3 years)
1992	Exxon Production Research - GPR presentation
1992	Amoco Ltd. - Seismic - GPR comparison project/statics
1992	Surface Search - Environmental and Training
1992	Geophysicon - GPR Training
1991	University of Calgary Thesis Research Grant
1991	Petrel-Robertson Research - GPR Applications
1990	University of Manitoba - GPR - Flood Deposits
1990/92/93	Academic Projects Fund (3)
1988	Cominco Exploration - Shallow Seismic Exploration
1987	Foundex Geophysics - Shallow Seismic Exploration

## PROFESSIONAL DEVELOPMENT

### Research

- 1999 - 2019 - have conducted research projects at over 1200 sites worldwide including Canada, United States, Israel, New Zealand, Australia, Europe and Antarctica. The projects have been funded by numerous agencies and foundations.  
- list of research projects available upon request – also see [www.jolgpr.org](http://www.jolgpr.org) for selected examples
- 1996/97/98 University of Wisconsin-Eau Claire  
- ground penetrating radar (GPR) of Washington/Oregon state coastline - erosion study (with USGS and Curt Peterson -PSU)  
- ground penetrating radar (GPR) research projects  
- Lake Superior shoreline  
- Apostle Islands National Lakeshore



- Superior/Duluth Barrier
  - Geoarchaeological investigations – Fort McCoy
  - Indiana Shoreline of Lake Michigan
  - Michigan Catastrophic and Glacial Deposits
  - Omaha, Nebraska - location of grave sites
  - Nebraska Sand Hills
  - Boise, Idaho - fluvial test site
  - North Carolina/Virginia - aeolian and coasts study
  - writing of grants/research funding for GPR field experiments of coastal, aeolian, and glacial environments in Wisconsin, Illinois, Indiana, Michigan, North Carolina, Minnesota, North and South Dakota, Nebraska and Oregon - funding is pending but collaborative research projects have been set up at all sites
  - incorporating remote sensing to site selection of geophysical surveys
  - 3-D imaging of GPR datasets - visualization of stratigraphy
- 1994/95/96      NSERC Post-Doctoral Fellow, Simon Fraser University
- ground penetrating radar, reflection seismic, coastal environments
  - GPR surveys of Yukon braided streams and placer gold deposits
  - seismic survey to characterize Langley aquifer
  - reservoir characterization of fluvial deposits, Book Cliffs, Utah
  - environmental GPR surveys
  - imaging and processing of GPR and seismic data
  - use of various geophysical techniques to characterize Langley aquifer
- 1993              University of Calgary Post-Doctoral Fellow, University of Calgary
- ground penetrating radar, lacustrine environments, radar stratigraphy
  - participated in collaborative research program of barriers (Washington, Oregon, Texas, Florida, Georgia)
  - 3D interpretation of coastal environments
- 1992              Research Project - France (Camargue Delta and Rhone River, Evieu)
- 1989-93          Doctoral Research, University of Calgary
- conducted, processed and interpreted ground penetrating radar (GPR) surveys from over 250 sites across North America (Alberta, British Columbia, Saskatchewan, Manitoba, Ontario, Montana, Idaho, Utah, Washington, Florida)
  - streamline GPR survey methodology
  - effectively budgeted, administered and handled logistics
  - trained colleagues and collaborated with industry and research institutions
- 1986-88          Master of Science Research, Simon Fraser University
- successfully coordinated a shallow seismic reflection investigation of the Fraser River delta including running, processing and interpreting all seismic surveys (20 line km)
- 1987              Researcher, Geological Survey of Canada
- coordinated and conducted shallow seismic reflection surveys
  - supervised a productive field team
- 1985&86          NSERC Summer Research Assistant
- operation and maintenance of engineering seismographs
  - operation and maintenance of geophysical logger (Mount Sopris)
  - utilized diamond drilling rig and Vibracoring techniques
  - field and laboratory sediment analysis

## Field Trips

2019	Lithuania – selected sites
2018	Lithuania – selected sites
2018	New Zealand – selected sites <ul style="list-style-type: none"> <li>- Port Hills and Banks Peninsula (ENGE 410)</li> <li>- Cass Field Station – Castle Hill, Cave Stream, Broken River, Ribbonwood Fan, Arthur's Pass, Otira Gorge, Slovens Creek area)</li> <li>- Ophua Dam – site investigation</li> <li>- Motunau and Hurunui – Landslide, coastal erosion and coring</li> <li>- Kaikoura – Highway #1/rail corridor – post-earthquake damage and remediation</li> <li>- Advanced Field Studies – Geol 351 West Coast Field Seminar</li> <li>- Wakanui – coastal erosion and gulley development</li> <li>- Woodchester – Kaikoura earthquake scarp and associated landslide</li> <li>- Porritt Park – liquefaction structures – anthropogenic and natural</li> <li>- Castle Hill – sinkholes (?) and terrace development</li> </ul>
2018	Switzerland – selected sites
2017	Australia – selected sites
2017	Israel – selected sites
2017	Lithuania – selected sites
2016	Physical Geography of the Marquette Area Field Trip, Northern Michigan University,
2016	Kirk Bryan Field Trip: Quaternary Landslides, Fluvial Terraces, and Recent Geomorphic Events along the Colorado Front Range (GSA'2016)
2016	Lithuania – selected sites
2016	Hong Kong, Hong Kong
2016	Rhodes, Greece
2015	Great Falls, Potomac River, Kirk Bryan, MD (GSA'2015)
2015	Lithuania – selected sites
2015	Rhodes, Greece
2014	Lake Superior – selected sites
2014	New Zealand – selected sites on South Island
2014	Israel – selected sites
2014	Michigan
2013	Yosemite Valley and coast
2013	Galveston Island and associated barriers, Texas
2013	Israel (northern coastal and interior)
2012	Desert Southwest (CA, NV, UT, AZ)
2008	Cape San Blas, Florida
2008	Sand Point, Michigan
2008	South Island, New Zealand
2007	North Shore Lake Superior, MN
2007	Central Maine – Peat Bogs
2007	Southern Utah/Northern Arizona
2007	Israel- Har Kakom (southern Israel)
2007	Desert Southwest (NV, CA, AZ, UT)
2006	Antarctica – Dry Valleys, November/December
2006	New Zealand – South Island (coasts and mountains), November/December
2006	Alpine Environments, Canadian Rockies, September
2006	Coastal Hydrology and Processes of Atlantic Barrier Islands, GSA, October
2006	Coastal Environments of Israel, July
2006	Southern Ohio, June
2005	Northern Arizona, October
2005	Black Hills, SD, August
2005	Rocky Mountain National Park, US, April 2005

2004	Northern tidal flats of the Netherlands, June 2004
2004	Northeastern Shoreline of Florida, June 2004
2004	Glacial and postglacial landscape evolution in the Glacial Lake Aitkin and Upham Basin, Northern Minnesota, Institute on Lake Superior Geology, May 8.
2003	Coastal evolution, dynamic shoreline processes, and beach management controversies of the Columbia River Littoral Cell, Southwest Washington and Northern Oregon. GSA, Oct. 30 – Nov. 1
2003	Holocene coastal processes in the Columbia River Cell, Northwest Friends of the Pleistocene Field Conference, Sept. 26-28.
2003	Physical Geography of Israel (Yavne and Nazareth region)
2003	Mid-Conference Field Trip – Westport, NZ, AQUA and NZ Friends of the Pleistocene, Feb. 6
2003	Physical Geography of New Zealand (North and South Island)
2002	Physical Geography of US Desert SW
2002	Physical Geography of Israel (Dead Sea and southern environs)
2002	Deglaciation and Holocene landscape evolution in Eastern Upper Michigan, 48 <sup>th</sup> Midwest Friends of the Pleistocene, Field Conference, May 31 – June 2
2002	Santa Barbara and surrounding areas including Morro Bay
2001	Quaternary Sea-level Change and Coastal Evolution in Eastern Maine, GSA, Nov. 1-4
2001	Field Studies of the Big Island, Hawaii, September 21 - 30
2001	Physical Geography of Israel (Sea of Galilee, Dead Sea and Northern Israel), July
2001	Northern Lake Superior, 47 <sup>th</sup> Midwest Friends of the Pleistocene, Field Conference, May 21-23
2000	Finger Lakes and Catskill Mountains, New York
2000	Southeast England Coastal Landforms
2000	Pictured Rocks National Lakeshore
2000	Southern Manitoba
2000	Physical Geography of Israel (Sea of Galilee, Dead Sea and Judean Desert)
2000	Australia, Queensland – Tropical Rainforest, Coast and Great Barrier Reef
2000	Southern Pennsylvania
2000	Colorado Plateau
1999	Physical Geography of Nevada and Utah
1999	Alpine Geomorphology of Mount Rae, Alberta, August 25
1999	Physical Geography of Israel (Sea of Galilee, Dead Sea and Judean Desert)
1999	Physical Geography of Nevada and Utah
1999	Pleistocene Geology of North-Central Indiana and South-Central Michigan, 45 <sup>th</sup> Midwest Friends of the Pleistocene, Field Conference, May 21-23
1999	Geomorphology of the Big Island, Hawaii, March
1999	Physical Geography of Central New Mexico
1998	Western Nevada/Eastern California, October
1998	Tri-State Geological Field Conference – West Central Wisconsin
1998	Death Valley Field Study
1997	Lake Tahoe/Pyramid Lake/Carson Sink/Lake Lahontan
1997	Lake Bonneville Classic Depositional Shore Features: Geochronology, Geomorphology, Stratigraphy, and Sedimentology, GSA Annual Meeting
1997	New Explorations Along the Northern Shores of Lake Bonneville, GSA Annual Meeting
1997	Glacial Geomorphology and Glaciology of the Green Bay Lobe During the Last Deglaciation, Southeastern Wisconsin GSA-NC (Colgan, Mickelson, Clayton, Attig)
1997	Conditions Around the Margin of the Green Bay Lobe During the Height of the Wisconsin Glaciation, GSA-NC (Clayton, Attig, Mickelson)
1997	Death Valley, CA
1996	Wisconsin - Baraboo, Eau Claire, Chippewa Falls, Apostle Islands - various leaders
1996	Olympic Peninsula, Washington - Friends of the Pleistocene
1995	West Coast of Newfoundland, Canadian Quaternary Association

- 1995 Eastern Avalon, Newfoundland, Canadian Quaternary Association
- 1995 Washington Scablands, Simon Fraser University
- 1995 Greater Victoria Watershed, Canadian Association of Geographers, Western Div.
- 1994 Salmon River Watershed, Soil and Water Conservation Society, B.C. Chapter
- 1994 Transgressive and Early Highstand Systems Tracts, Pleistocene Terrace Deposits, Willapa Bay, Washington, SEPM (Clifton)
- 1994 Rocky Mountain Section/SEPM- Models for the Stratigraphy of Ramp Margins: Sequence Stratigraphy and Facies Architecture of the Desert and Castlegate, Book Cliffs, Utah and Colorado (Van Wagoner)
- 1994 Langley District Watershed and Environmental Implications
- 1994 Geological - Drumheller, Alberta, University of Calgary
- 1994 Mass Movement, Southwestern British Columbia, Simon Fraser University
- 1993 Friends of the Pleistocene - Quaternary Geology of the Mission Valley, Montana.
- 1993 Marine Geological Studies of Coastal Areas: Saanich Inlet to the Fraser River Delta - Applied Quaternary Research Meeting
- 1992 Extended Geological Field Trip to Central Utah - Panther Tongue, Book Cliffs (also, Arches, Canyonlands, Grand Tetons, Yellowstone)
- 1992 Friends of the Pleistocene - Quaternary Geology of Jackson Hole, Wyoming.
- 1992 Geomorphic landform analysis of playas, volcanoes, alluvial fans in Death Valley, California, U.S.A., University of Lethbridge
- 1992 Alberta Geomorphology Group - Quaternary reconstructions, glacial landforms and catastrophic subglacial flooding in central Alberta.
- 1991 Coastal Depositional Systems of the Gulf of Mexico, GCSEPM (Penland & Suter)
- 1991 Tidal and Coastal Deposits, Willapa Bay - Petrel Robertson Field Trip
- 1991 Assisted with Alberta Geomorphology Group - Glacial Lake Missoula, Western Montana, and Channeled Scabland, Central Washington.
- 1991 Assisted with Alberta Geomorphology Group - Quaternary Reconstruction of the Elk Valley area, SE British Columbia
- 1990 Extended field trip to learn of pluvial lake Bonneville and the Bonneville flood sites, Utah, U.S.A.

#### **Workshops/Short/Training Courses (EDI, Teaching and Research)**

- 2019 Understanding, Motivating, and Engaging iGen Students (Mary Beth Leibham, Professor, Department of Psychology, UWEC), CETL (EDI Tier 2)
- 2019 Active Shooter Training (David Sprick, Chief, University Police)
- 2018 Teaching and Learning STEM reading group, CETL (EDI Tier 2)
- 2018 Identifying and Responding to the Mental Health Needs of UWEC Students: A Comprehensive Guide for Faculty and Staff, CETL (EDI Tier 2)
- 2018 Stereotype Threat and Implications for the Classroom (Whistling Vivaldi): Reading Book Series, CETL (EDI Tier 2)
- 2018 Preproposal Contacts: Who You Need to Talk to and What You Need to Know Before Writing Your Next Grant Proposal, WiSys/ORSP
- 2018 Data Security, UWEC/EVERFI
- 2018 One Module or a Whole Class Workshop, CETL
- 2018 Student Engagement Lightning Round Workshop, CETL
- 2018 Motivating and Engaging Students, CETL
- 2018 Cross-Cultural Teaching in a Diverse Classroom (Shanton Chang, Professor, University of Melbourne), University of Canterbury
- 2018 Authentic Assessment (Eric Brogt, Academic Developer), University of Canterbury
- 2018 Faults and Cities: Royal Society of New Zealand Catalyst Seeding Grant Workshop: Application of high-resolution geophysical methods to mapping the sub-surface of New Zealand urban settings, GNS Science, Avalon, Lower Hutt, New Zealand

2018	BiCultural Competence Training (Sacha McMeeking, Maori and Indigenous Studies) University of Canterbury
2017	Building Inclusive Classrooms: Hmong Students and Culture (Charles Vue, Associated Director of Multicultural Affairs), CETL
2017	Using the Work Skill Development Framework to Build Rigour into WIL Programs: I- MELT, International Conference on Models of Engaged Learning and Teaching
2017	Finding Employability Skills in the Curriculum: Are they there?: I-MELT, International Conference on Models of Engaged Learning and Teaching
2017	Transforming Teaching Practices: A Model to Conquer Evidence Based Decision Making Skills: I-MELT, International Conference on Models of Engaged Learning and Teaching
2017	Ground Penetrating Radar: Principles, Practice, Processing
2017	Small Teaching: Everyday Lessons from the Science of Learning: Book Group and Discussion, CETL
2017	Intercultural Competence: Dr. Tara Harvey, True North Intercultural
2017	Intentional Mentoring, Community of Practice, ORSP
2017	Slow Professor: Book Discussion and Community of Practice, CETL
2017	Intersections: Preventing Harassment & Sexual Violence: EVERFI- Lawroom Training (UW System)
2017	Diversity: Inclusion in the Modern Workplace: EVERFI - Lawroom Training (UW System)
2017	Data Security & Privacy: EVERFI - Lawroom Training (UW System)
2016	Alternatives to the Research Paper, CETL
2016	Intentional Mentoring, Community of Practice, ORSP
2016	Geochemical Applications of pXRF, Geological Society of America Annual Meeting
2016	Cultural Responsive Practices; Creating Equitable Learning Environments: Spring Successful Teaching Practices, CETL
2015	Assessing Undergraduate Research: What We Can Learn from Assessment at Multiple Levels, CETL
2015	Research Mentoring - Community of Practice, ORSP
2015	Focus on Student Learning: Fall Successful Teaching Practices, CETL
2015	Make it Stick – The Science of Successful Learning – CETL Book Group
2015	WisCUR Workshop on Establishing Research Networks
2015	CETL Session – Engaging First Day Activities, Helping Students with Academic Skills, Scheduled Office Hours: Why am I Alone? Eau Claire, WI
2015	Teaching International Students, CETL, Eau Claire, WI
2015	Successful Teaching Practices Series – Spring 2015, CETL, Eau Claire, WI
2015	Digital Content, CETL, Eau Claire, WI
2014	CUR Dialogues Workshop, Arlington, VA
2014	CETL, Eau Claire, WI
2014	CETL, Eau Claire, WI
2013	CETL, Eau Claire, WI
2012	CETL, Eau Claire, WI
2012	CETL, Eau Claire, WI
2013	Journal Writing Workshop, CIGE & CETL, Eau Claire, WI
2008	Developing Purposeful Learning: Don't Leave Learning to Chance, Eau Claire, WI
2008	Green Learning – Course Design from the Ground Up, Eau Claire, WI
2008	Diversity across the Curriculum, Eau Claire, WI
2007	Team Based Learning, Eau Claire, WI
2007	National Science Foundation - Workshop of Peatland Geophysics, University of Maine, Orono, Maine
2007	The Assessment Toolbox: Assessing Student Learning Part 1: Creating Meaningful Assignments for your Students

- 2007 The Assessment Toolbox: Assessing Student Learning Part 2: Using Multiple choice Tests and Reflective Writing to Assess Complete Learning Outcomes
- 2007 Diversity in the Classroom, Eau Claire, WI
- 2007 Lesson Study Training Workshop, Menomonie, WI
- 2006 Engaging Students in the College Classroom, Eau Claire, WI
- 2006 Motivating Students in the College Classroom, Eau Claire, WI
- 2006 Hands-On Fundamentals of GPR, Columbus, OH
- 2006 Collaborative Learning: Facilitating Group Work in the Classroom, Eau Claire, WI
- 2006 Speaking Millennial: Understanding and Teaching a New Generation of Students
- 2006 When Backwards is Forward Thinking: Recreating Courses Through a New Design
- 2005 When Students Have Power, Eau Claire, WI
- 2005 Scholarship of Teaching and Learning Workshop, Eau Claire, WI
- 2005 Learner Centered Teaching, Eau Claire, WI
- 2002 Three-Dimensional Acquisition, Processing and Imaging of Ground-Penetrating Radar Data, Ninth International Conference on Ground-Penetrating Radar, Santa Barbara, CA
- 2001 Seisvision Software Workshop, Geographix, Denver, CO
- 2000 Advanced Ground Penetrating Radar Processing, Gold Coast, Australia
- 1999 CORONA Revealed: The Secret Geography of the US' First Satellite Program, Honolulu, HI
- 1999 Maneuvering through the Mist: Clarifying Map Projections Concepts, Issues, and Implementation, Honolulu, HI
- 1997 How to Develop Undergraduate Research in Geology/Programs in Geology /Instrumentation and Laboratory Improvement Program, Bethesda, Maryland
- 1997 Your Business and Satellite Imagery - Spot Image Corporation, Minneapolis, MN
- 1995 Teaching Large Classes, The Centre for University Teaching
- 1995 Cooperative and Participatory Learning, The Centre for University Teaching
- 1995 The Use of Voice in Teaching, The Centre for University Teaching
- 1994 Applied Geophysics Workshop, Environmental & Engineering Geophysics Society
- 1994 Instructional Skills Workshop, Simon Fraser University, BC (3 days-intensive sessions)
- 1993 Sequence Stratigraphy Course (Van Wagoner) - Geological Association of Canada
- 1991 Recent Sand Models Course (Meckel and Smith) - Professional Seminar Group
- 1988 Seismic Stratigraphy (Vail and Sangree) - American Association of Petroleum Geologists
- 1988 Seismic Expressions - American Association of Geologists
- 1987 Geophysics for the Exploration Geologist: Traditional Approaches and Recent Innovations (Woods) - Geological Association of Canada

## Conferences

- 2018 The 20<sup>th</sup> Annual Batchelder Conference for Archaeology and Biblical Studies, W.H. Thompson Alumni Center, University of Nebraska-Omaha, November 9-10, Omaha, NE,
- 2018 Geological Society of America, 130<sup>th</sup> Annual Meeting, November 4-7, Indianapolis, IN,
- 2018 Student Research Symposium, Frontiers Abroad and the University of Canterbury, June 1, Christchurch, New Zealand
- 2018 17<sup>th</sup> International Conference on Ground Penetrating Radar (GPR 2018), June 18-21, Rapperswil, Switzerland
- 2107 I-MELT, International Conference on Models of Engaged Learning and Teaching, Adelaide, Australia
- 2017 19<sup>th</sup> Annual Batchelder Conference for Archaeology and Biblical Studies, Omaha, NE
- 2017 Geological Society of America Annual Meeting, Seattle, WA
- 2017 Geological Society of America Joint 52nd Northeastern Annual Section and 51st North-Central Annual Section Meeting, March 19-21, Pittsburgh, Pennsylvania
- 2016 18<sup>th</sup> Annual Batchelder Conference for Archaeology and Biblical Studies, Omaha, NE
- 2015 Association of American Geographers, West & East Lakes Section, Marquette, MI
- 2016 Geological Society of America Annual Meeting, Denver, CO

- 2016 16<sup>th</sup> International Conference of Ground Penetrating Radar (GPR'2016), Hong Kong
- 2016 Geological Society of America, North-Central Section, Champaign, IL
- 2015 Geological Society of America Annual Meeting, Baltimore, MD
- 2015 Association of American Geographers, West Lakes Section, Eau Claire, WI
- 2015 Geological Society of America, North-Central Section, Madison, WI
- 2015 American Society for Photogrammetry and Remote Sensing, Western Great Lakes Region, Spotlight Event, Geospatial Confluence, Eau Claire, WI
- 2014 16<sup>th</sup> Annual Batchelder Conference for Biblical Archaeology
- 2014 Geological Society of America Annual Meeting, Vancouver, BC
- 2014 Geological Society of America, North-Central Section, Lincoln, NE
- 2013 15<sup>th</sup> Annual Batchelder Conference for Biblical Archaeology
- 2013 Geological Society of America Annual Meeting, Denver, CO
- 2013 American Association of American Geographers, West Lakes, Eau Claire, WI
- 2013 Geological Society of America, North-Central Section, Kalamazoo, MI
- 2012 14<sup>th</sup> Annual Batchelder Conference for Biblical Archaeology
- 2007 9<sup>th</sup> Annual Batchelder Conference for Biblical Archaeology
- 2007 Geological Society of America Annual Meeting, Denver, CO
- 2006 Geological Society of America Annual Meeting, Philadelphia, PA
- 2006 Author's Celebration, Eau Claire, WI
- 2006 3<sup>rd</sup> Annual Teaching and Learning Symposium, Eau Claire, WI
- 2006 11<sup>th</sup> International Conference on Ground Penetrating Radar (GPR 2006), Columbus, OH
- 2006 Symposium on the Application of Geophysics to Engineering and Environmental Problems (SAGEEP), 19<sup>th</sup> Annual Meeting, Seattle, WA
- 2006 Association of American Geographers (AAG), 102nd Annual Meeting, Chicago, IL
- 2005 2<sup>nd</sup> Annual Teaching and Learning Symposium, Eau Claire, WI
- 2005 The Land and the People Conference, Galilee & Jerusalem, Israel
- 2005 Geological Society of America, 39<sup>th</sup> Annual Meeting of the North-Central Section, Minneapolis, MN, May 19-20
- 2005 Association of American Geographers, 101st Annual Meeting, Denver, CO, April 5-9,
- 2004 Geological Society of America Annual Meeting, Denver, CO, November 7-10
- 2005 6<sup>th</sup> Annual Batchelder Biblical Archaeological Conference, University of Nebraska at Omaha, Omaha, NE, October 28-30,
- 2004 Tenth International Conference on Ground Penetrating Radar GPR 2004, Delft University of Technology, Delft, The Netherlands, June 21 - 24,
- 2003 Geological Society of America Annual Meeting, Seattle, WA, November 2-5
- 2003 International Conference on Archaeology, History and Technology, University of Hartford, Hartford, CT, Sept. 7-10.
- 2003 Australasian Quaternary Association Biennial Conference, Westport, NZ, Feb. 3-7
- 2002 The 4<sup>th</sup> Annual Batchelder Biblical Archaeology Conference, Omaha, NE
- 2002 72<sup>nd</sup> Annual Meeting of the Society of Exploration Geophysicists, Salt Lake City, UT
- 2002 Ninth International Conference on Ground-Penetrating Radar, Santa Barbara, CA
- 2001 American Schools of Oriental Research, Boulder, CO
- 2001 Geological Society of American Annual Meeting, Boston, MA
- 2001 GPR in Sediments: Applications and Interpretations International Conference, London, England
- 2001 Society of Biblical Literature International Conference, Rome, Italy
- 2001 Association of American Geographers, 97<sup>th</sup> Annual Meeting, New York,
- 2000 Fifth Southwest Washington Coastal Erosion Study Workshop, Olympia, WA
- 2000 2<sup>nd</sup> Biblical Archaeology for the 21<sup>st</sup> Century: A Symposium, Omaha, NE
- 2000 International Binghamton Geomorphology Symposium: Integrating of Computer Modelling and Field Observation in Geomorphology, Binghamton, NY

- 2000 The Millennium Conference on the Sea of Galilee and the City of Jerusalem. Israel Museum, Jerusalem, Israel
- 2000 8<sup>th</sup> International Conference on Ground Penetrating Radar (GPR 2000), Gold Coast, Australia
- 2000 96<sup>th</sup> Annual Meeting of the Association of American Geographers, , Pittsburgh, PA
- 1999 Biblical Archaeology for the 21<sup>st</sup> Century: A Symposium, Omaha, NE
- 1999 International Workshop: Testable Stochastic Features of Subsurface Structures, Flow and Transport, Centro Stefano Franscini of the Swiss Federal Institute of Technology, Monte Verita, Ascona, Switzerland.
- 1999 Canadian Quaternary Association and Canadian Geomorphology Research Group Joint Conference, Calgary, AB
- 1999 95<sup>th</sup> Annual Meeting of the Association of American Geographers, Boston, MA
- 1998 Third Southwest Washington Coastal Erosion Study Workshop, Olympia, WA
- 1998 Joint Meeting of the West Lakes Division of the Association of American Geographers (49<sup>th</sup> Annual Meeting) and Wisconsin Geographical Society (52<sup>nd</sup> Annual Meeting)
- 1998 7<sup>th</sup> International Conference on Ground Penetrating Radar, Lawrence, Kansas
- 1998 94<sup>th</sup> Annual Meeting of the Association of American Geographers, Boston, MA
- 1997 Second Southwest Washington Coastal Erosion Study Workshop, Olympia, WA
- 1997 Geological Society of America, 1997 Annual Meeting, Salt Lake City, Utah
- 1997 Geological Society of America, 31<sup>st</sup> Annual North-Central Section, Madison, Wisconsin
- 1997 Council of Undergraduate Research (CUR), Bethesda, Maryland
- 1997 93<sup>rd</sup> Annual Meeting, The Association of American Geographers, Fort Worth, Texas
- 1996 17<sup>th</sup> Annual Research Conference GCSEPM, Houston, Texas
- 1996 First Southwest Washington Coastal Erosion Study Workshop, Olympia, WA
- 1996 Sixth International Conference on Ground Penetrating Radar, Sendai, Japan
- 1995 American Geophysical Union, San Francisco, CA
- 1995 Canadian Quaternary Association, St. John's, Nfld.
- 1995 Geological Association of Canada, Victoria, B.C.
- 1995 Aggregate Forum, Vancouver, B.C.
- 1995 Canadian Association of Geographers - Western Division, Victoria, B.C.
- 1994 Watershed Management in Transition, Vancouver, B.C.
- 1994 Geological Society of America, Seattle, WA.
- 1994 Clastic Deposits of the Transgressive Systems tract: Facies, Stratigraphy and Reservoir Character, SEPM Research Conference, Long Beach, WA.
- 1994 5<sup>th</sup> International Conference on Ground Penetrating Radar, Waterloo, Ont.
- 1994 Symposium on the Application of Geophysics to Engineering and Environmental Problems, Boston, MA
- 1993 4<sup>th</sup> International Geomorphology Conference, Hamilton, Ont.
- 1993 Applied Quaternary Research - Canadian Quaternary Association, Victoria, B.C.
- 1993 Geological Association of Canada Annual Meeting, Edmonton, AB
- 1992 European Association of Exploration Geophysicists Annual Conference, Paris
- 1992 Sequence Stratigraphy of European Basins Conference, Nice, France
- 1992 Fourth International Conference on Ground Penetrating Radar, Rovaniemi, Fin.
- 1992 Canadian Society of Exploration Geophysicists Convention, Calgary, AB
- 1991 Coastal Depositional Systems in the Gulf of Mexico, Quaternary Framework and
- 1991 NUNA Conference on High-Resolution Sequence Stratigraphy, Banff, AB
- 1991 Society of Exploration Geophysicists - International Conference and Shallow Seismic Source Test, Houston, TX
- 1991 CREWES (Consortium for Research in Elastic Wave Exploration Seismology) Annual Meeting, Banff, AB
- 1991 Canadian Society of Exploration Geophysicists Convention and Geophysical Fair
- 1991 Canadian Sedimentology Research Group Meeting, Calgary, AB
- 1991 Western Division, Canadian Association Geographers Meeting, Calgary, AB
- 1990 Third International Conference on Ground Penetrating Radar, Denver, CO



1989	Second International Conference on Geomorphology, Frankfurt, Germany
1987	Society of Exploration Geophysicists Convention, New Orleans, LA
1987	Western Division, Canadian Association of Geographers Meeting, Burnaby, B.C.

## PROFESSIONAL AFFILIATIONS

### Member of

American Geophysical Union (AGU)  
 Gamma Theta Epsilon  
 Geological Society of America (GSA)  
 International Society for Archaeological Prospection

### Academic and Research Associations (present and past):

- Associate Graduate Faculty, Minnesota State University, Mankato
- Adjunct Professor, Dept. of Earth and Environmental Sciences, University of Waterloo
- Associate Researcher - Bethsaida Excavations Project
- Adjunct - Professor of Geophysics - Department of Earth, Ecological and Environmental Sciences, University of Toledo, OH

## ACADEMIC SERVICE

### Conference Organization

- 18<sup>th</sup> International Conference on Ground Penetrating Radar (GPR 2020), Golden, CO, Planning Committee
- Geological Society of America North Central Section – 2020 Conference Planning Co-chair
- Session Chair for “Geological Applications” - 17<sup>th</sup> International Conference on Ground Penetrating Radar (GPR 2018), Rapperswil, Switzerland.
- Invited Scientific Panel Member – 17<sup>th</sup> International Conference on Ground Penetrating Radar (GPR 2018), Rapperswil, Switzerland.
- Session Chair for “A Tribute to Derald G. Smith – Visionary in the application of GPR in Earth Science Applications” - 16<sup>th</sup> International Conference on Ground Penetrating Radar (GPR 2016), Hong Kong.
- Invited Scientific Panel Member – 16<sup>th</sup> International Conference on Ground Penetrating Radar (GPR 2016), Hong Kong.
- Organizer and Session Chair for T55 – Investigating Coastal Environments: A tribute to Derald G. Smith (Sessions 85 & 212), Geological Society of America, 127<sup>th</sup> Annual Meeting, November 1-4, Baltimore, MD, Abstracts with Program
- Scientific Panel Member - 15<sup>th</sup> International Conference on Ground Penetrating Radar, Brussels, Belgium
- Technical Program Committee – 12<sup>th</sup> International Conference on Ground Penetrating Radar, Birmingham, UK, June 15 – 19, 2008
- Session Chair (with William Johnson) – Quaternary Geology/Geomorphology – Geological Society of America Annual Meeting, Denver, CO, October 28-31, 2007
- Organizing Committee – 11<sup>th</sup> International Conference on Ground Penetrating Radar, June 19-22, 2006 (Technical Program)
- Chair (invited) – Sedimentology Session (Reviewed papers submitted and chaired session) – 11<sup>th</sup> International Conference on Ground Penetrating Radar, June 19-22, 2006
- Chair (with L. Conyers - invited) – Archaeology Session (Reviewed papers submitted and chaired session) – 11<sup>th</sup> International Conference on Ground Penetrating Radar, June 19-22, 2006

- Chair (invited) – Archaeology Session – at the Symposium on the Application of Geophysics to Engineering and Environmental Problems (SAGEEP), 19<sup>th</sup> Annual Meeting, Seattle, WA, April 2-6, 2006.
- Chair (invited) – Geological Applications Session– at the 10<sup>th</sup> International Conference on Ground Penetrating Radar, Delft, The Netherlands, June 21-24, 2004
- initiated and co-organized (with G. Baker – University of Buffalo) and chaired session – Advances in Stratigraphic Analyses using Ground Penetrating Radar) - at the Annual Meeting of the Geological Society of America, Seattle, WA, November 2-5, 2003
- initiated and co-organized (with R. Young – University of Oklahoma) and chaired session - Subseismic resolution GPR Imaging - at the 72<sup>nd</sup> Annual Meeting of the Society of Exploration Geophysicists, Salt Lake City, UT, Oct. 6 –11, 2002
- chaired (invited) session - Reservoir Characterization and Time-lapse (RCT P1) - at the 72<sup>nd</sup> Annual Meeting of the Society of Exploration Geophysicists, Salt Lake City, UT, Oct. 6-11, 2002.
- chaired (invited) session – Sedimentology/Environmental Applications – at the 9<sup>th</sup> International Conference on Ground Penetrating Radar, Santa Barbara, CA, April 29 – May 2, 2002
- initiated, planned and ran a Topical Session at the Geological Society of America 2001 Meeting. T33 – Coastal Erosion Programs: Collaborative Research in Action. Geological Society of America, Annual Meeting, Boston, MA, November 1-10, 33(6).
- initiated, planned and successfully ran the first GPR in Sediments: Applications and Interpretations Conference with Charlie Bristow. Held at the Geological Society of London and the University College of London, London, England, August 20-21, 2001

#### **Academic Journal Manuscript Reviewer**

- multiple journals, 1996 – present (8 manuscripts reviewed in past year)

#### **Regular Proposal Reviewer for:**

- National Science Foundation
- Petroleum Research Foundation
- University of Wisconsin – Eau Claire Office of Research and Sponsored Programs

#### **Conference – Paper/Poster Judge**

- EuroGPR Young Scientists Award, 17<sup>th</sup> International Conference on Ground Penetrating Radar (GPR 2018), Rapperswil, Switzerland
- Student Research Symposium, Frontiers Abroad and the University of Canterbury, June 1, Christchurch, New Zealand.
- Geological Society of America Joint 52<sup>nd</sup> Northeastern Annual Section and 51<sup>st</sup> North-Central Annual Section Meeting, March 19-21, Pittsburgh, Pennsylvania.

#### **Graduate Advising**

- University of Waterloo – MSc Earth and Environmental Sciences – Sean Morrison, Title: Natural Late Holocene lake level fluctuations recorded in the Ipperwash strandplain, southern Lake Huron – September 2017, co-advisor
- University of Wisconsin-Milwaukee - MSc Geosciences – Andrew J. Mumpy, Title: Three-dimensional Architecture and Sedimentology of a Modern Braid Bar in the Wisconsin River: Analysis using Ground Penetrating Radar – May 2004, co-advisor
- advise students from various universities on data collection, processing and interpretation of ground penetrating radar data

### **University of Wisconsin-Eau Claire Committees (present and former)**

- Office of Research and Sponsored Programs – WiSYS Quick Pitch Organizing Committee (2016, 2017, 2018)
- Center for Excellence in Teaching and Learning Advisory Board
- Center for Excellence in Teaching and Learning – Regents Teaching Award Advisory Committee
- Accounts Payable Project Team - Administrative Service Center Implementation Project
- Office of Research and Sponsored Programs – Review Committee (Stem C)
- University Internal Review Committee – Department of Communication Sciences and Disorders (chair)
- University Internal Review Committee – Department of Computer Science
- University Internal Review Committee – Department of Physics and Astronomy
- University Internal Review Committee – Department of Chemistry
- University Service Learning Advisory Committee –co-chair
- Office of Research and Sponsored Programs – Report of Publications Taskforce
- Departmental Personnel Committee (chair & secretary Full Professor Subcommittee)
- Simpson Fund Visionary Committee
- Departmental Curriculum Committee
- Geospatial Advisory Board Committee
- University Senate
- University Faculty Nominating Committee (Senate)
- Center for Excellence in Teaching and Learning Advisory Council
- University Senate Technology Committee (member and Chair)
- University Service Learning Advisory Committee
- University Service Learning Advisory Fellowship Sub-Committee
- Network for the Excellence in Teaching (NET) Advisory Council
- Recreation Advisory Committee
- Judicial Issues Committee
- Internal Review Committee - Physics and Astronomy Review
- University Search Committee for the Assistant Vice Chancellor and CIO
- University Research Council
- University Research and Creative Activity Council
- Thesis – co-supervisor (UW-Milwaukee)
- Riverbank Evaluation
- Computational Science committee (development of new minor)
- Phillips Hall Renovation committees
- Input to new Environmental Science minor

### **University, Departmental & Community**

- Service Learning Mentor (Faculty and Community Mentor)

- co-organizer of the Radical Reels Film Tour (2017, 2018)
- co-organizer of the Banff Mountain Film Festival World Tour (2013, 2014, 2015, 2106, 2017)
- co-organizer of the Earth Science Seminar Series (20+ years)
- Graduate Faculty 1996 - present
- faculty mentor – incoming faculty
- lead organizer University of Wisconsin- Eau Claire - Earth Science Seminar Series (every Spring and Fall)
- Service Learning Mentor & Supervisor
- organized “Sanctuaries” photo exhibition from Hartford School of Art. Exhibition which was held at the UWEC McIntyre Library (Spring 2008)
- organized visit by Dr. Richard Freund (multiple seminars – November 2006)
- organized “Baths, Burials and Beyond” photo exhibition from Hartford School of Art. Exhibition was held at the UWEC McIntyre Library (November, 2006)
- participated in University Alumni Gathering, Bellevue (April 2006)
- co-organized University Alumni Gathering, Chicago (March, 2006)
- lead organizer 2005/2006 (Spring and Fall) Earth Science Seminar Series
- organized “Holy Sites, Holy Sights” photo exhibition from Hartford School of Art. Exhibition was held at the UWEC Foster Gallery
- initiated and co-organized (with P. Ihinger and D. Faulkner) - Earth Science Seminar Series (Fall 2004)
- initiated and co-organized (with G. Running and D. Faulkner) - Physical Geography Seminar Series (Spring 2004)
- co-organized (with K. Havholm) a seminar by Glenn Berger (Desert Research Institute) – Dating sediment using fossil light: case histories in sand dunes and polar lakes.
- Geography Majors Day -aided in planning
- GIS Day - aided in planning
- Presentation “Thriving as Faculty” for New Faculty and Staff Orientation, UWEC (1998, 1999)
- Presentation to New Faculty and Academic Staff on the balance between teaching and research - request from the Dean's Office

#### **Vice-President (2006 – 2008)**

Coastal and Marine Geography Specialty Group of the Association of American Geographers

#### **Secretary/Treasurer/Newsletter Editor (1999-2002)**

Coastal and Marine Geography Specialty Group of the Association of American Geographers

#### **University of Wisconsin System - Board of Regents Presentation**

- on the Student/Faculty Research Collaboration Program at UWEC - requested by the Chancellors Office

#### **Lecturer**

- University of Wisconsin-Eau Claire - Continuing Education – Community Program on Explorations in Biblical Archaeology
- In-Service Training Day Speaker -Chippewa County - on Ground Penetrating Radar
- Wisconsin Geography Alliance - on Updates within in Remote Sensing and Geographic Information Systems

### **Faculty Advisor (1996-2002)**

- Geography Club
- Geography Honors Society (Gamma Theta Upsilon)
- Participate in “Taking a Wing under Your Wing” program

### **Technical Advisor**

- advising universities, government institutions and industry on the use and purchase of Ground Penetrating Radar

### **Video Production**

- invited participant in the *production of a film* entitled “Secrets of the Cave of Letters” The video was filmed during the research project that was conducted in Israel during the summer of 2000. The film is being produced by NOVA.
- invited participant in the *production of a video* entitled “Return to the Cave of Letters” The video was filmed during the research project that was conducted in Israel during the summer of 1999. (produced by University of Nebraska TV).
- video shot of Geography 491 class for university commercials
- invited participant in the production of the video “At Ocean's Edge: Coastal Change in Southwest Washington” (United States Geological Survey Production)

### **Graduate Representative**

- Geography Department Graduate Program Review Committee
- Council of the Faculty of Graduate Studies
- Faculty of Graduate Studies Policy Committee
- Graduate Student Association
- Geography Department; Graduate Lounge Committee

***Co-Registrar*** - Canadian Association of Geographers (Western Division, 1991)

***Director at Large*** - Graduate Student Association (University of Calgary)

***Undergraduate Representative*** - Geography Department Undergraduate Program Review Committee (Simon Fraser University)