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DONALD I. SIEGEL

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EDUCATION

University of Minnesota	Hydrogeology	1974-1981	Ph.D.
Penn State University	Geology	1969-1971	M.S.
University of Rhode Island	Geology	1965-1969	B.S.

EMPLOYMENT

Full Professor	Syracuse University	1993-present
Senior Hydrogeologist	Stearns & Wheeler Consulting Engineers and Scientists	1985-1997
Hydrologist/Geochemist	U.S. Geological Survey	1976-1982
Geologist	Amerada Hess Corp.	1971-1973

PROFESSIONAL RECOGNITION

Laura J. and L. Douglas Meredith Professor, Syracuse University, 2009

Lifetime National Associate Member, The National Research Council (National Academy of Sciences), 2008

The O.E. Meinzer Award In Hydrogeology, Hydrogeology Division, Geological Society of America, 2005

Wasserstrom Graduate Mentoring Prize, Syracuse University, 2003

Councilor of the Geological Society of America, 2002-2005

Distinguished Service Award, Hydrogeologic Division, Geologic Society of America, 2001

Expert Witness to the United States Senate, Subcommittee on Environment and Public Affairs, June 26, 1997

Fellow, Geological Society of America, elected 1995

Birdsall Distinguished Lectureship in Hydrogeology, Geological Society America, 1992-1993

Chairman, National Water Science and Technology Board, June 2010-present

Member National Water Science and Technology Board, **National Research Council**, 2007-present.

Committee on Techniques for Assessing Ground Water Contamination, **National Research Council**, **National Academy of Science**, 1991-1993.

Committee on Techniques for Wetland Delineation, **National Research Council**, **National Academy of Science**, 1993-1994.

Committee on U.S. Geological Survey Hydrologic Research: Regional Aquifer System Analysis, **National Research Council**, **National Academy of Science**, 1998-2000



Committee on U.S. Geological Survey Hydrologic Research: Water Use, **National Research Council, National Academy of Science**, 2000-2001

Committee on U.S. Geological Survey Hydrologic Research: Stream Information Program, **National Research Council, National Academy of Science**, 2001-2004

Chair, Committee on U.S. Geological Survey Hydrologic Research: River Science, **National Research Council, National Academy of Science**, 2002-2005

Committee on Groundwater Fluxes, **National Research Council, National Academy of Science**, 2002-2003.

Committee on River Science (Chair), **National Research Council, National Academy of Sciences**, 2003-2006.

Committee on the Future of USGS WRD, **National Research Council, National Academy of Sciences**, 2005-2008.

Committee on Environmental Impact of Coal-Gas Methane Production, **National Research Council, National Academy of Science** 2008-2010

Chair, Committee on 3rd Phase National Water Quality Assessment, USGS, **National Research Council, National Academy of Science** 2010-2013.

Book Editor, Geological Society of America, 2007-2010

Associate Editor, Hydrologic Processes, 2006-2008

Associate Editor, Geosphere, 2005-2007

Associate Editor, Geology, 2005-2007.

Associate Editor, Hydrogeology Journal, 2005-present.

Associate Editor, Water Resources Research, 1993-1996; 2010-present

Associate Editor, Wetlands, 1995-1998

Associate Editor, Ground Water, 1997-2005.

Editors' Citation for Excellence in Refereeing - Water Resources Research, 1991

Review Panelist , Biogeochemistry program, National Science Foundation, 1995

TEACHING EXPERIENCE

Syracuse University

Hydrogeology (advanced undergraduate/graduate)
Contaminant Hydrogeology and Geochemistry (graduate)
Groundwater and Solute Transport Modeling (graduate)
Hydrogeochemistry (graduate)
Aqueous Geochemistry (graduate)
Wetland Hydrology and Geochemistry (Graduate)

Short Courses

Wetland Hydrogeology and Geochemistry, 1995, Short Course, Geol. Society of America
Effective Teaching of Hydrogeology: How to Make the Best Use of Scant "Real World Data,"
1996, 1999 (NE GSA) Short Course, Geol. Society of America
Applied Groundwater Geochemistry, Geol. Society of America, National Meeting 2000, 2002; MA and NY
Dept. Natural Resources and Environmental Conservation, 1990-1994; Licensed Site
Professionals Association of Mass (1999); Environmental Professionals of Connecticut, 2001;
Central New York Association of Professional Geologists (1997). Geological Society of America
National Meeting, 2002.
Tracer Methods in Hydrology, Licensed Site Professionals Association of Mass (1999); Environmental
Professionals of Connecticut, 2007; Central New York Association of Professional Geologists (2005).
Visual Modflow Groundwater Modeling for Managers, City of New York Dept. Environmental Protection,
1999
Pesticide Transport and Fate, Montana Department Environmental Quality, 2000
Succeeding in Academia (2001), Association of Women Geologists and Geol. Soc. American, 2001
Co-Chair, Teaching Hydrogeology in the 21st Century, NSF Workshop, Lincoln, Neb., spring 2006

PROFESSIONAL SOCIETY MEMBERSHIP

Geological Society of America (1980's to present)
American Geophysical Union (1980's to present)
Association of Wetland Scientists (1990-1997)
National Groundwater Association (1980's to present)
Geochemical Society (1982-1990)
American Association for Advancement of Science (2003-2006)

REFEREED PUBLICATIONS

Books:

1. National Research Council, 1994, **Groundwater Vulnerability Assessment**, National Academy Press 204p.
2. National Research Council, 1995, **Wetland Characteristics and Boundaries**, National Academy Press 306p.
3. National Research Council, 2000, **Investigating Groundwater Systems on Regional and National Scales**, National Academy Press, 143p.
4. National Research Council, 2003, **Water Use Science: Improving The Water Use Program of the U.S. Geological Survey**, National Academy Press, 210p..
5. National Research Council, 2003, **Groundwater Fluxes across Interfaces**, National Academy Press, 76p.
6. National Research Council, 2004, **Assessing the National Streamflow Information System**, National Academy Press, 176p.
7. National Research Council, 2006, **River Science at USGS**, National Academy Press, 206p.
8. **Siegel, D.I**, 2006 "*From Lokshen to Lo Mein: The Jewish Love Affair with Chinese Food.*" Gefen Press, Jerusalem and New York.

Articles (By Year)

1. Olcott, P.G. and **Siegel, D.I.**, 1979, Physiography and surficial geology of the copper-nickel study region, northeastern Minnesota: U.S. Geological Survey Water-Resources Investigations 78-51, 22 p.
2. **Siegel, D.I.** and Winter, T.C., 1979, Water balance of Williams Lake, north-central Minnesota, U. S. Geological Survey Professional Paper 107.
3. **Siegel, D.I.** , 1979, Potential hydrologic effects of peat mining in the Red Lake Peatlands, North-Central Minnesota--a project plan, U.S. Geological Survey Open File Report 79-1591,
4. **Siegel, D.I.**, 1980, Method of logging holes drilled by the rotary method: Water Resources Division Bulletin, January-March, 1980, U.S. Geological Survey, Reston, Virginia, p. 47-49.
5. **Siegel, D.I.** and Ericson, D.W., 1980, Hydrology and water quality of the copper-nickel study region, northeastern Minnesota: U.S. Geological Survey Water-Resource Investigations, 80-739, 87 p.
6. **Siegel, D.I.** and Winter, T.C., 1980, Hydrologic setting of Williams Lake, north-central Minnesota: U.S. Geological Survey Open-File Report 80-403, 55 p.
7. **Siegel, D.I.**, 1981a, Hydrogeologic setting of the Glacial Lake Agassiz Peatland, northern Minnesota: U.S. Geological Survey Water-Resources Investigations 81-24, 32 p.
8. **Siegel, D.I.**, 1981b, Effect of snowmelt on the water quality of Filson Creek and Omaday Lake, northeastern Minnesota: Water Resources Research, Vol. 17, p. 238-242.
9. **Siegel, D.I.**, 1981, Hydrogeochemistry and kinetics of silicate weathering in a gabbroic watershed, Filson Creek, northeastern Minnesota: Ph.D. Thesis, University of Minnesota, 275 p.
10. Guswa, J.H., **Siegel, D.I.**, and Gillies, D.G., 1982, A Preliminary evaluation of the ground-water-flow system, Twin Cities metropolitan area: U.S. Geological Survey Water-Resources Investigations Report 82-44, 70 p.
11. **Siegel, D.I.**, 1983a, Groundwater and evolution of the Glacial Lake Agassiz: Journal of Ecology, vol. 71, p. 913-921.
12. **Siegel, D.I.**, 1983b, Review of: Isotope Studies of Hydrologic Processes (Eds. E.D. Perry and C.W. Montgomery), EOS, vol. 64, p. 430.
13. **Siegel, D.I.**, 1983c, The effect of snowmelt on the quality of Filson Creek and Omaday Lake, northeastern Minnesota, U.S. Geological Survey Water Resources Investigations 81-66, 82 p.
14. **Siegel, D.I.**, Anderson, L.E., and Rogalla, J.A., 1983, Preliminary evaluation of methods for determination of sulfate concentrations in precipitation and other dilute solutions, In: Siegel, 1983c.
15. Carter, Virginia P.; chairperson; Winter, Thomas C. ; Novitzki, Richard P. ; Hollands, Garrett G. ; Lejcher, Terry ; O'Brien, Arnold ; **Siegel, D. I.** ; Straw, Thomas ; Bartow, Nancy C. 1984, Proceedings of the National wetland valuesassessment workshop, 17-28, U.S. Department of Interior, Fish and Wildlife Service, Washington, DC, United States
16. Mullins, H.T., Land, L.S., Wise, S.W., Jr., **Siegel, D.I.**, Masters, P.M., Hinchey, E.J. and Price, K.R., 1985, Authigenic dolomite in Bahamian slope sediment, Geology, vol. 13, p. 292-295.

17. Mullins, H.T., Wise, S.W., Jr., Gardulski, A., Hinchey, E.J., Masters, P.M. and **Siegel, D.I.**, 1985, Shallow subsurface diagenesis of late Pleistocene Peri-platform ooze: northern Bahamas, *Sedimentology*, vol. 32, p. 473-494.
18. **Siegel, D.I.**, and Franzi, D.A., 1984, The inorganic geochemistry of groundwater and sediments in an aquifer contaminated by crude petroleum, Bemidji, Minnesota: Project plan and preliminary results, U.S. Geological Survey Water Resources Investigation 84-4188, p. 87-96.
19. **Siegel, D.I.** and Pfannkuch, H.O., 1984a, Silicate mineral dissolution at pH 4 near standard temperature and pressure, *Geochimica et Cosmochimica Acta*, vol. 48, p. 197-201.
20. **Siegel, D.I.** and Pfannkuch, H.O., 1984b, Silicate dissolution influence on Filson Creek chemistry, northeastern Minnesota: *Geological Society of America Bulletin*, vol. 95, p. 1446-1453.
21. **Siegel, D.I.**, and Livermore, D., 1984, Chloride transport in the Mississippi River System, *Water Resources Bulletin*, vol. 20, p. 503-509.
22. **Siegel, D.I.** and Mandle, R.J., 1984, Isotopic evidence for glacial meltwater recharge to the Cambrian-Ordovician aquifer, north-central United States, *Quaternary Research*, vol. 22, p. 328-335.
23. Chamberlain, S.C., Dossert, W.P. and **Siegel, D.I.**, 1986, A new paragenesis and new localities for the barium carbonate, witherite, *Canadian Mineralogist*, vol. 24, p. 79-90.
24. Chason, D.B. and **Siegel, D.I.** 1986, Hydraulic conductivity and related physical properties of peat, Lost River Peatland, northern Minnesota, *Soil Science*, vol. 42, p. 91-99.
25. **Siegel, D.I.**, 1986, Review: Water, by Felix Franks, Heyden & Sons, Phila., Pa., *Water Resources Bulletin*, vol. 22, p. 145.
26. **Siegel, D.I.**, Baedecker, M.J. and Bennett, P., 1986, The effect of biodegradation of oil on the inorganic chemistry of ground water, In: *Proceedings of the 6th International Water-Rock Symposium*, Reykjavik, Iceland, p. 524-527.
27. Young, H.L., **Siegel, D.I.**, Mandle, R.J. and Kontis, A.L., 1986, Northern Midwest Regional Aquifer System Study, In: *Regional Aquifer System Analysis Program of the U.S. Geological Survey Summary of Projects, 1978-84*, Ed. Ren Jen Sun, U.S. Geological Survey Circular 1002, p. 72-87.
28. Bennett, P. and **Siegel, D.I.**, 1987, Enhanced dissolution of quartz by dissolved organic carbon, *Nature*, vol. 326, p. 684-686.
29. **Siegel, D.I.** 1987a, Review of: Ecological Considerations in Wetlands Treatment of Municipal Wastes, Ed. P.J. Godfrey et al., Van Nostrand Reinhold Company, *Water Resources Bulletin*, Vol. 22, p. 1056-1057.
30. **Siegel, D.I.**, 1987b, Review of the recharge-discharge function of wetlands, In: *Ecology and Management of Wetlands*, Crown Helm Ltd., UK, p. 59-66.
31. **Siegel, D.I.**, 1987c, Geochemical facies and mineral dissolution, Bemidji, Minnesota Research Site, U.S. Geological Survey Water Open File Rept. 87-109, c13-c15.
32. **Siegel, D.I.**, and Glaser, P.H., 1987, Groundwater flow in a spring-fen, raised-bog complex, Lost River Peatland, Northern Minnesota, *Journal of Ecology*, vol. 75, p. 743-754.

33. Bennett, P., Melcer, M.E., **Siegel, D.I.**, and Hassett, J.P., 1988, The dissolution of quartz in dilute aqueous solutions of organic acids at 25 C, *Geochimica Cosmochimica Acta*, vol. 52, p. 1521-1530.
34. Gould, G. and **Siegel, D.I.**, 1988, Theoretical simulation of groundwater flow in hydrocarbon-producing bedrock formations, southwestern New York-northwestern Pennsylvania, *Water Resources Bulletin*, vol. 24, p. 671-676.
35. **Siegel, D.I.** and Jenkins, D.T., 1987, Isotopic analysis of groundwater flow systems in a wet alluvial fan, southern Nepal, In: *Isotope Techniques in Water Resources Development*, International Atomic Energy Agency, p. 475-482.
36. **Siegel, D.I.**, Chamberlain, S.C. and Dossert, W.P., 1987, The isotopic and chemical evolution of mineralization in septarian concretions: Evidence for episodic paleohydrogeologic methanogenesis, *Geological Society of America*, vol. 99, p. 385-394.
37. **Siegel, D.I.**, Bennett, P.C., Baedecker, M.J., Berndt, M.P. and Franzi, D.A., 1988, The inorganic geochemistry of groundwater and aquifer matrix, Bemidji Toxic Waste Research Site, northern Minnesota: First Year Results U.S. Geol. Survey Open-File Rept. 86-481, p. c17-c212.
38. **Siegel, D.I.**, 1988, The recharge-discharge function of wetlands near Juneau, Alaska: Part I. Hydrologic investigations, *Journal of Ground Water*, vol. 26, p. 427-435.
39. **Siegel, D.I.**, 1988, The recharge-discharge function of wetlands near Juneau, Alaska: Part II. Geochemical investigations, *Journal of Ground Water*, vol. 26, p. 580-596.
40. **Siegel, D.I.**, 1988, Evaluating Cumulative Effects of Disturbance on the Hydrologic Function of Bogs, Fens, and Mires, *Environmental Management*, vol. 12, p. 621-626.
41. Baedecker, M.J., **Siegel, D.I.**, Bennett, P.C., Cozzarelli, I.M., 1989, The Fate and Effects of Crude Oil in a Shallow Aquifer: Distribution of Chemical Species and Geochemical Facies, U.S. Geol. Survey Water Resources Investigations 88-4220, Chapter A, p. 1-20.
42. Bennett, P.C. and **Siegel, D.I.**, 1989, Silica-organic complexes and enhanced quartz dissolution in water by organic acids, In *Proceedings, 6th International Symposium on Water-Rock Interactions*, Bath, England, p.89-91.
43. Loveley, D.R., Baedecker, N.J., Phillips, E.J.P., Cozzarelli, I.M., Lonergan, D.J., and **Siegel, D.I.**, 1989, Oxidation of aromatic contaminants coupled to microbial iron reduction, *Nature*, vol. 339, p. 297-300.
44. **Siegel, D.I.**, 1989, The hydrogeochemistry of the Cambrian-Ordovician aquifer system, north-central United States, U.S. Geol. Survey Prof. Paper, 1405-D, 76 p.
45. **Siegel, D.I.** and Begor-Franz, K., 1989, The Geochemistry of the Sandstone Aquifer, eastern Wisconsin, In: *Regional Aquifer Systems of the United States*, American Water Resources Association, Monograph Series 13, p. 73-83.
46. Young, H.L., Mandle, R.J., Kontis, A. L. and **Siegel, D.I.**, 1989, The Cambrian-Ordovician Regional Aquifer systems in the northern Midwest--a summary, In *Regional Aquifer Systems of the United States*, American Water Resources Association, Monograph Series No. 13, p. 5-37.
47. **Siegel, D.I.**, 1990, Sulfur isotopic evidence for regional recharge of saline water during continental glaciation, north-central United States, *Geology*, vol. 18, p. 1054-1056.

48. **Siegel, D.I.**, Stoner, D., Brynes, T. and Bennett, P., 1990, A geochemical process approach towards evaluating ground-water contamination, *Ground Water Management*, Number 2, National Water Resources Association, p. 1291-1301.
49. **Siegel, D.I.**, Groundwater Chemistry, a chapter in: Young, H., 1990, *The hydrogeology of the Cambrian-Ordovician aquifer system of the north-central United States*: U.S. Geological Survey Professional Paper 1405-A
50. **Siegel, D.I.**, Frape, S.K., Martini, A., Drimmie, R., and Thomas, R., 1990, Trace metal contamination of the Great Lakes by natural ground-water discharge: a first approximation, In *Proceedings Symposium on International and Boundary Water Resources Issues*, American Water Resources Association, p. 605-615.
51. Bennett, P.C., **Siegel, D.I.**, Hill, B.M., and Glaser, P.H., 1991, The fate of silicate minerals in a peat bog, *Geology*, vol. 19, p. 328-331.
52. Brynes, T., **Siegel, D.I.**, and Stoner, D.W., 1991, Evaluation of groundwater quality data: useful tools for the groundwater professional, *Ground Water Management*, vol. 7, p. 825-837.
53. Hill, B.M. and **Siegel, D.I.**, 1991, Ground-water flow and the metal content of peat, *Journal of Hydrology*, vol. 123, p. 211-224.
54. Glaser, P.H., Janssens, J.A., and **Siegel, D.I.**, 1991, Response of vegetation to hydrological and chemical gradients in the Lost River Peatland, northern Minnesota, *Journal of Ecology*, vol. 78, p. 1021-1048.
55. **Siegel, D.I.**, 1991, Evidence for dilution of deep, confined, ground water by vertical recharge of isotopically heavy Pleistocene water, *Geology*, v. 19, p. 433-436.
56. **Siegel, D.I.**, and Glaser, P.H., 1991, Mechanisms controlling the production and transport of methane, carbon dioxide, and dissolved solutes within a large boreal peat basin, Department of Energy Research Summary, No. 11, June, 1991, 4 pp.
57. **Siegel, D.I.**, Szustakowski, R., and Frape, S., 1991, A regional evaluation of brine mixing in the Albion Group (Silurian) sandstones of New York, Pennsylvania, and Ohio, *Bull. Petrol. Geoch. Explor.*, vol. 6, p. 66-78.
58. **Siegel, D.I.**, Brynes, T., and Stoner, D.W., 1991, Mobilization of heavy metals and trace elements from landfill cover material and substrates, *Ground Water Management*, vol. 7, p. 971-988.
59. McNamara, J.P., **Siegel, D.I.**, Glaser, P.H., & Beck, R.M., 1995, Groundwater and vegetation relationships in the Malloryville Wetlands: Implications for hydrogeologic control over peatland succession, *Journal of Hydrology*, vol. 140, p. 279-296.
60. **Siegel, D.I.** 1992, Discussion of "Geochemical Evolution of the Cambrian-Ordovician Aquifer, Easter Wisconsin: 1. Major Ion and Radionuclide Distribution," by T.R. Weaver and J. M. Bahr, May-June 1991 issue, v.29, no.3, p. 350-356, and "Geochemical Evolution of the Cambrian-Ordovician Sandstone Aquifer, Eastern Wisconsin: 2. Correlation Between Flow Paths and Ground-Water Chemistry," by T. R. Weaver and J. M. Bahr, July-August 1991 issue, v.29, no. 4, p 510-515, *Ground Water*, v.30, p.273-275.
61. **Siegel, D.I.**, McFarland, W. and Brynes, T., 1992, Geochemical cause of scaling in air stripping of volatile organic compounds, In: *Proceedings National Groundwater Association Petroleum and Hydrocarbon Annual Conference*, Houston, TX.
62. Baedecker, M.J., Cozzarelli, I., **Siegel, D.I.**, and Bennett, P., 1993, Carbon cycling in an oil contaminated aquifer, vol. 8, *Journal of Applied Geochemistry*, p. 569-586.

63. Baedecker, M.J., Cozzarelli, I.M., Eaganhouse, R.P., **Siegel, D.I.**, and Bennett, P.C., 1993, Crude oil in a shallow sand and gravel aquifer--III. Biogeochemical reactions and mass balance modeling in anoxic groundwater, *Applied Geochemistry*, vol. 8, p. 569-586
64. Bennett, P.C., **D.I. Siegel**, M.J. Baedecker, and M.F. Hult, 1993, Crude oil in a shallow sand and gravel aquifer--I. Hydrogeology and inorganic geochemistry, *Applied Geochemistry*, vol. 8, p. 529-549.
65. **Siegel, D.I.**, Stocking, K., and Gray, J.D., 1993, Geochemical methods to clearly distinguish coal fly ash leachate from natural groundwater, In: *Proceedings 1993 American Power Conference*, Chicago, Illinois, p. 256-259.
66. **Siegel, D.I.**, 1993, Ground Water, Chapter 11, In: *The Patterned Peatlands of Northern Minnesota*, (Ed. H.E. Wright, Jr.), University of Minnesota Press, p. 163-173.
67. Romanowicz, E., **Siegel, D.I.**, and Glaser, P.H., 1993, Hydraulic reversals and episodic methane emissions during drought cycles in mires, *Geology*, vol.21,p.231-234.
68. Chanton, J., Baurer, J., Glaser, P., **Siegel, D.I.**, Kelly, C., Tyler, S.C., Romanowicz, E. and Lazarus, A., 1995, Radiocarbon evidence for the substrates supporting methane formation within northern Minnesota peatlands, *Geochimica Cosmochimica Acta*, vol. 59, p. 3663-3668
69. Romanowicz, E.A., **Siegel, D.I.**, Chanton, J.P. and Glaser, P.H., 1995, Temporal variations of deep dissolved-methane in the Lake Agassiz Peatland, *Global Biogeochemical Cycles*, vol. 9, p.197-212.
70. **Siegel, D.I.**, Reeve, A., Glaser, P.H. and E. Romanowicz, 1995, Climate-driven flushing of pore water from humified peat: geochemical and ecological ramifications, *Nature*, vol. 374, p. 531-533.
71. **Siegel, D.I.** (panel member), 1995, *Wetlands: Characteristics and Boundaries*, National Research Council Press, Washington, D.C.
72. **Siegel, D.I.**, Moran, E.C. and Stoner, D.W., 1995, Landfill remediation and contaminant characterization Part III: Use Simple Methods to Identify Landfill Leachate, *MSW Management*, Nev/Dec 1995, p.26-32.
73. Stoner, D. and **Siegel, D.I.**, 1995, Landfill remediation and contaminant characterization Part I: How to best use groundwater quality data, *MSW Management*, July/August 1995, p.54-59.
74. Stoner, D. and **Siegel, D.I.**, 1995, Landfill remediation and contaminant characterization Part II: Contamination from MSW landfills is a treatable environmental illness, *MSW Management*, Sept./Oct., 1995, p.54-57.
75. Ours, D. P. and **Siegel, D.I.** , 1996, Hydrogeochemical evaluation techniques: the only way to really tell if corrective action is necessary, In: *Proceedings SWANA 1st Annual Lanfill Symposium*, Wilmington, Delaware, Nov. 4-6, 1996, p.119-141.
76. Reeve, A.S., **Siegel, D.I.**, and Glaser, P.H., 1996, Geostatistical analysis of peat pore-water chemistry: Hudson Bay Lowlands, Ontario, Canada, *J. of Hydrology* , vol.181, p.285-304.
77. **Siegel, D.I.**, 1996, Natural bubbling brew: the carbonated springs of Saratoga, *GeoTimes*, vol 41. p. 20-24.

78. Glaser, P.H., **Siegel, D.I.**, Shen, Y., and Romanowicz, E.A., 1997, Regional linkages between raised bogs and groundwater flow-systems in the Glacial Lake Agassiz region of Northern Minnesota, *Jour. of Ecology*, vol. 85, p. 91-99.
79. Glaser, P.H., **Siegel, D.I.**, Bennett, P.C., and Romanowicz, E.A., Paleomarkers for reversals of groundwater flow and peatland development at Lost River, Minnesota, 1997, *Holocene*, vol. 6., pp.413-421.
80. Ours, D., **Siegel, D.I.** and Glaser, P.H., 1997, Chemical dilation and the material properties of peat, *Jour. of Hydrology*, vol. 196, p. 348-360.
81. Mason, J.M, Gabriel, W., and **D.I. Siegel**, Environmental characterization of karstic terrains: A case study for the preactical application of stable isotope ratios and anion/cation analysis of ground water, 1998, In *Proceedings: 7th Multidisciplinary Conference on Sinkholes and the Engineering and Environmental Impacts of Karst*, USEPA.
82. Rivers, J.S., **Siegel, D.I.**, Glaser, P.H., Chanton, J.P. and Stalder, L., 1998, A stochastic appraisal of the annual inorganic and organic carbon budget of a large circumboreal peatland, Rapid River Watershed, northern Minnesota, *Global Biogeochemical Cycles*, vol. 12, p.715-727.
83. Drexler, J.Z., Bedford, B.L., DeGaetano, A.T., and **Siegel, D.I.**, 1999, Quantification of the Water Budget and Nutrient Loading in a Small Peatland, *Amer. Water Res.Assoc. Bull.*, vol. 35, p.753-769.
84. Drexler, J.Z., Bedford, B.L., Scognamiglio, R. and **Siegel, D.I.**, 1999, Fine-scale characteristics of groundwater flow in a peatland, *Hydrological Processes*, vol. 13, p. 1341-1359.
85. **Siegel, D.I.** and B. Andersen, 2000, Effectively Using Isotopes of Water to Solve Practical Hydrogeological Problems, Chapter I-G, In: *Handbook of Environmental Science, Health and Technology*, Ed. Lehr, J., McGraw-Hill, Ed. J.H. Lehr and J.K.Lehr, p. 4.38-4.73.
86. Chasar, L.S., J.P. Chanton, P.H. Glaser and **Siegel, D.I.**, 2000, Methane concentration and stable isotope distribution as evidence of rhizospheric processes: comparison of a fen and bog in the Glacial Lake Agassiz peatland complex. *Annals of Botany* 86, 655-663.
87. Chasar, L.S., J.P. Chanton, P.H. Glaser, **Siegel, D.I.**, and J.S. Rivers, 2000, Radiocarbon and stable carbon isotopic evidence for transport and transformation of DOC in northern Minnesota peatlands, *Global Biogeochem. Cycles*, vol. 14, p. 1095-1108.
88. Hogan, J.F., Blum, J.D., **Siegel, D.I.**, and Glaser, P.H. 2000, $^{87}\text{Sr}/^{86}\text{Sr}$ as a tracer of groundwater discharge and precipitation recharge in the Glacial Lake Agassiz Peatlands, Northern Minnesota, USA, *Water Resources Research*, vol. 36, p.3701-3711
89. Lipson, D. and **Siegel, D.I.**, 2000 Using ternary diagrams to characterize the transport and attenuation of BTX, *Ground Water*, *Ground Water*, vol. 38, p. 106-113.
90. Reeve, A.S., **Siegel, D.I.**, and Glaser, P.H., 2000, Simulating vertical flow in large peatlands, *Journal of Hydrology*, vol. 227, p.207-217.
91. **Siegel, D.I.**, Bickford, M.E., and Orell, S., 2000, Leachate, marine and bedrock water sources in the Fresh Kills Landfill, Staten Island, New York: constraints on an environmental problem from Pb and Sr isotopic and other geochemical data, *Applied Geochemistry*, vol. 15, p. 493-500.
92. McKenzie, J. F., **Siegel, D.I.**, Patterson, W. and McKenzie, D.J., 2001, A geochemical survey of spring water from the main-Ethiopian rift valley, southern Ethiopia: implications for well-head protection, *Hydrogeology Journal*, vol. 9, p. 265-272.

93. Erbe, M.W., and **Siegel, D.I.**, 2001, Using ternary diagrams to characterize biodegradation and hydrophobic sorption of chlorinated ethenes in ground water, *Journal of Environmental Hydrology*, vol. 9, 11p. (Available only on www.dwt.com)
94. Reeve, A.S., **Siegel, D.I.**, and Glaser, P.H., 2001, Simulating dispersive mixing in large peatlands, *J. Hydrology*, vol. 242, pp 103-114.
95. Reeve, A.S., Warzocha, J., **Siegel, D.I.**, and Glaser, P.H., 2001, Regional ground-water flow modeling of the glacial lake Agassiz peatlands, Minnesota, *J. Hydrology*, vol. 243, pp 91-100
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