- 1. Taylor, H.E., 1966, Construction and Calibration of a Faraday Magnetic Susceptibility Apparatus: Arizona State Univ., Tempe, Arizona, *NSF Undergraduate Project Report*, No. 1, 133 p.
- Taylor, H.E., Skogerboe, R.K. and Gibson, J.H., 1970, Determination of Trace Impurities in Argon by Microwave Induced Excitation: *Anal. Chem.*, 42, 876.
- 3. Taylor, H.E., Skogerboe, R.K. and Gibson, J.H., 1970, Determination of Trace Amounts of Sulfur by Atomic Absorption and Emission Spectrometry: *Anal. Chem., 42*, 1569.
- 4. Brown, R., Jacobs, M.L. and Taylor, H.E., 1972, A Survey of the Most Recent Applications of Spark Source Mass Spectrometry: *Amer. Lab., 4*, 11.
- 5. Brown, R., Jacobs, M.L. and Taylor, H.E., 1973, Most Recent Applications of Spark Source Mass Spectrometry: *Int. Lab.*, 32.
- 6. Taylor, H.E. and Brown, R., 1973, Trace Analysis of Food Products by Spark Source Mass Spectrometry: *Cereal Science Today, 18*, 307.
- 7. Curzon, M.E.J., Lossee, F.L., Brown, R. and Taylor, H.E., 1974, Vanadium in Whole Human Enamel and It's Relationship to Dental Caries: *Archs Oral Biol.*, 19, 1161.
- 8. Taylor, H.E. and Brown, R., 1974, Analysis of Trace Elements in Environmental Materials and Wastes by Spark Source Mass Spectroscopy: *Instrumentation in the Mining and Metallurgy Industries, V. 2, ISA*, 21.
- 9. Taylor, H.E. and Brown, R., 1974, The Application of Spark Source Mass Spectrometry to the Analysis of Water Samples, <u>In Water Resource Problems Related to Mining</u>, No. 18, American Water Res. Assoc., 72.
- 10. Brown, R. and Taylor, H.E., 1975, Trace Element Analysis of Normal Lung Tissue and Hilar Lymph Nodes by Spark Source Mass Spectrometry: *Health, Education and Welfare Pub. No. (NIOSH) 75-129*, 85 p.
- 11. Mesick, F.G. and Taylor, H.E., 1976, Levels of Trace Elements in the Ambient Air at Selected Locations in the Northern Great Plains: *Environmental Protection Agency Report 68-QZ-1387, Task 7*, 67 p.
- 12. Hinkley, T.K. and Taylor, H.E., 1977, Sediment and Water Chemistry in Mixed and Unmixed Watersheds, Hidden Water Creek, Wyoming: *U.S. Geological Survey Open File Report, No. 77-872, 28 p.*
- 13. Erdmann, D.E. and Taylor, H.E., 1978, An Automated Procedure for Simultaneously Determining Specific Conductance and pH in Natural Waters: *Anal. Chim. Acta, 99*, 269.
- 14. Bonelli, J.E., Skogerboe, R.K. and Taylor, H.E., 1978, Iron Interference on Ultra Trace Determination of Copper in Natural Waters by Differential Pulse Anodic Stripping Voltammetry: *Anal. Chim. Acta, 101*, 437.

- 15. Taylor, H.E., 1978, Aquametry: *Anal. Chem., 50*, 897A.
- 16. Taylor, H.E., 1978, Atomic Absorption Spectrometry, <u>In</u> Skougstad, M.W., Fishman, M.J., Friedman, L.C., Erdmann, D.E. and Duncan, S.S., eds., Methods for Analysis of Inorganic Substances in water Fluvial Sediments, *U.S. Geological Survey Open-File Report, No. 78-679, 881 p.*
- 17. Taylor, H.E. and Erdmann, D.E., 1979, An Automatic Range Switching Modification for Direct Reading Specific Conductance Measurements: *Chem., Biomed., and Environ. Inst., 9,* 49.
- 18. Johnson, G.W., Taylor, H.E. and Skogerboe, R.K., 1979, Determination of Trace Elements in Natural Waters by the Direct Current Plasma, Multi-element-Atomic Emission Spectrometer (DCP-MAES) Technique: Spectrochimica Acta, 34B, 197.
- 19. Garbarino, J.R. and Taylor, H.E., 1979, An Inductively coupled Plasma Atomic Emission Spectrometric Method for Routine Water Quality Testing: *Appl. Spectrosc, 33*, p. 220.
- 20. Johnson, G.W., Taylor, H.E. and Skogerboe, R.K., 1979, Evaluation of Spectral Interferences Associated with a Direct Current Plasma, multi-element-Atomic Emission Spectrometer (DCP-MAES) System: *Appl. Spectrosc.*, 33, 451.
- 21. Jones, B.E., Stein, G.P. and Taylor, H.E., 1979, A Simple, Inexpensive Automated Data-Handling System for Inductively-coupled Plasma Analysis: *Jarrell-Ash Newsletter*, *2*, 9
- 22. Bonelli, J.E., Taylor, H.E. and Skogerboe, R.K., 1979, Modification of a Commercial Micrometer Hanging Mercury Drop Electrode: *Anal. Chem.*, 51, 2413.
- 23. Johnson, G.W., Taylor, H.E. and Skogerboe, R.K., 1979, Evaluation of Solute Vaporization Interference Effects in a Direct Current Plasma: *Anal. Chem.*, *51*, 2403.
- 24. Taylor, H.E., 1979, <u>In</u> Skougstad, M.W., Fishman, M.J., Friedman, L.C., Erdmann, D.E. and Duncan, S.S., eds. Methods for Determination of Inorganic Substances in Water and Fluvial Sediments, *Techniques of Water-Resources Investigations of the U.S. Geological Survey, Bk 5, Chap. A1, 626 p.*
- Taylor, H.E., 1979, A General Comparison of the Analytical Capabilities of Direct Current and Inductively Coupled Plasmas for Water Quality Testing, Proceedings, Conference on Plasma Spectrochemical Analysis, Groton, Conn. p. 93.
- 26. Bonelli, J.E., Skogerboe, R.K., Schroder, L.J. and Taylor, H.E., 1980, Thallium Identification in Selected Atmospheric Deposition Samples: *Atmos. Environ.*, *14*, 867.

- 27. Johnson, G.W., Taylor, H.E. and Skogerboe, R.K., 1980, Characterization of an Interelement Enhancement Effect in a DC Plasma Atomic Emission Spectrometry System: *Appl. Spectrosc., 34*, 19. (I wrote 50% of paper.)
- 28. Garbarino, J.R. and Taylor, H.E., 1980, A Babington-Type Nebulizer for Use in the Analysis of Natural Water by Inductively coupled Plasma Spectrometry: *Appl. Spectros.*, *34*, 584.
- 29. Bonelli, J.E., Taylor, H.E. and Skogerboe, R.K., 1980, A Direct Differential Pulse Anodic Stripping Voltammetric Method for the Determination of Thallium in Natural Waters: *Anal. Chim. Acta, 118*, 243.
- 30. Taggert, J.E. Jr., Wahlberg, J.S. and Taylor, H.E., 1980, X-ray Spectrometric Major-element Analyses of Tephra Samples for the May 18, 1980 Eruption of Mt. St. Helens Samples collected from Washington, Idaho and Montana: U.S. Geological Survey Open-File Report, No. 80-1130, 26 p.
- 31. Taylor, H.E. and Lichte, F.E., 1980, Chemical Composition of Mt. St. Helens Volcanic Ash: *Geophys. Res. Letters, 7*, 949.
- 32. Pereira, W.E., Rostad, C.E. and Taylor, H.E., 1980, Mt. St. Helens, Washington, 1980 Volcanic Eruption: Characterization of Organic Compounds in Ash Samples: *Geophys. Res. Letters, 7*, 953.
- 33. Pereira, W.E. and Taylor, H.E., 1980, Mt. St. Helens Stirs Chemical Interest: *Chemical and Engineering News*, 28.
- 34. Schroder, L.J. and Taylor, H.E., 1980, Contamination Studies and Testing Protocol for Polyethylene Bottles: *U.S. Geological Survey Open-File Report, No. 80-165.*
- 35. Taylor, H.E. and Bonelli, J.E., 1980, Impact of Mount St. Helens Eruption on Hydrology, *Proceedings of Symposium on Mt. St. Helens Eruption*, Institute for Atmospheric Optics and Remote Sensing, No. 18.
- 36. Kaiser, M.L., Koirtyohann, S.R. Hintenberger, E.J. and Taylor, H.E., 1981, Reduction of Matrix Interferences by the L'vov Platform in Furnace Atomic Absorption Analysis: *Spectrochim. Acta, 36B,* 773.
- 37. Garbarino, J.R. and Taylor, H.E., 1981, A Simple and Versatile Automatic Sampler for an Inductively coupled Plasma Emission Spectrometer: *Chemical, Biomedical, and Environ. Instrum., 11*, p. 289.
- 38. Pereira, W.E., Rostad, C.E., Taylor, H.E. and Klein, J.M., 1982, Characterization of Organic Contaminants in Environmental Samples Associated with Mt. St. Helens: *Environ. Science and Tech., 16*, 387.
- 39. Taylor, H.E., 1982, <u>In</u> Minear, R.A., ed., A Summary Methods for Water Quality Analysis of Specific Species, *Treatise on Water Analysis*, Academic Press, 235.

- 40. Bonelli, J.E. and Taylor, H.E., 1981, <u>In</u> Hemphill, D.D., ed., Impacts of Mount St. Helens Eruption on Hydrology and Water Quality, *Trace Substances in Environmental Health XV*, 261.
- 41. Trujillo, F.J., Miller, M.M., Skogerboe, R.K., Taylor, H.E., and Grant, C.L., 1981, Ion Chromatographic Determination of Thiosulfate in Oil Shale Leachates: *Anal. Chem., 53*, 1944.
- 42. Grant, C.L., Trujillo, F.J., Taylor, H.E., Miller, M.M. and Skogerboe, R.K., 1981, Comparison of Laboratory Methods for Studying Leaching of Retorted Oil Shale, *Proceedings of Symposium on Surface Mining Hydrology, Sedimentology and Reclamation,* Univ. of Kentucky, Dec. 7, 451.
- 43. Koirtyohann, S.R., Giddings, R.C. and Taylor, H.E., 1981, Mechanisms of Interference Reduction in Furnace Atomic Absorption Using the L'vov Platform, *Proceedings 9th Int. Conf. on Atomic Spectroscopy and XXII Colloquium Spectroscopicum Internationale*, Tokyo, Japan, September, 104.
- 44. Taylor, H.E., 1981, The Chemical Composition of Mt. St. Helens Volcanic Ash, *Proceedings 9th Int. Conf. on Atomic Spectroscopy and XXII Colloquium Spectroscopicum Internationale*, Tokyo, Japan, September, 104.
- 45. Taylor, H.E., 1981, Recent Applications of Inductively-coupled Plasma Emission Spectrometry to Routine Water Quality Analysis, *Proceedings 9th Int. Conf. on Atomic Spectroscopy and XXII Colloquium Spectroscopicum Internationale*, Tokyo, Japan, September, 303.
- 46. Taylor, H.E., 1981, Current Status of Plasma Emission Spectroscopy in Water Analysis, <u>In</u> Barnes, R.M., ed., *Developments in Atomic Plasma Spectrochemical Analysis*, Heyden, London, UK 575.
- 47. Bonelli, J.E., Taylor, H.E. and Klein, J.M., 1982, Impacts of Mt. St. Helens Eruption on Hydrology and Water Quality, *Atmospheric Effects and Potential Climatic Impact of the 1980 Eruptions of Mount St. Helens*, NASA, Washington, D.C. NASA Conference Publication 2240, 43.
- 48. Koirtyohann, S.R., Giddings, R.C. and Taylor, H.E., 1981, Mechanisms of Interference Reduction in Furnace Atomic Absorption Using a L'vov Platform, *Proceedings 17th Midwest Regional American Chemistry Society Meeting*, Columbia, MO, p. 3.
- 49. Taylor, H.E., 1981, Automated Techniques for Water Quality Analysis, *Proceedings 6th Australian Symposium on Analytical Chemistry*, Canberra, Australia, August 23.
- 50. Taylor, H.E., 1982, Atomic Emission Spectrometric Methods, <u>In</u> Fishman, M.J. and Bradford, W.L., eds., A Supplement to Methods for the Determination of Inorganic Substances in Water and Fluvial Sediments: *U.S. Geological Survey Open-File Report, No. 82-272, 136 p.*

- 51. Smith, D.B., Zielinski, R. and Taylor, H.E., 1982, Leaching Characteristics of Ash from the May 18, 1980, Eruption of Mt. St. Helens Volcano, Washington: U.S. Geological Survey Open-File Report, No. 82-987, 56.
- 52. Garbarino, J.R. and Taylor, H.E., 1982, Automated Standardization Technique for an Inductively coupled Plasma Emission Spectrometer: *Anal. Chim. Acta, 134*, 153.
- 53. Feltz, H., Taylor, H.E. and Erdmann, D.E., 1982, 1983 Water Quality Services Catalog: *U.,S. Geological Survey Open-File Report, No. 82-766, 38 p.*
- 54. Taylor, H.E., 1982, Instrumental Techniques-Atomic Absorption Spectrometers, <u>In</u> Friedman, L.C. and Erdmann, D.E., eds., Quality Assurance Practices for the Chemical Analysis of Water and Fluvial Sediments, *Techniques of Water-Resources Investigations of the U.S. Geological Survey, Bk. 5, Chap. A6, 181 p.*
- 55. Smith, D.B., Zielinski, R.A. and Taylor, H.E., 1983, Leaching Characteristics of Ash from the May 1980 Eruption of Mount St. Helens Volcano, Washington: *Bull. Volcanol, 46*, No. 2, 103.
- 56. Garbarino, J.R. and Taylor, H.E., 1984, Totally Automated Inductively coupled Plasma Spectrometer for Routine Water Quality Testing: *Spectrochim. Acta, 38B*, p. 323.
- 57. Koirtyohann, S.R., Giddings, R.C. and Taylor, H.E., 1984, Heating Rates in Furnace Atomic Adsorption Using the L'vov Platform: *Spectrochim. Acta, 39B*, No. 2-3, 407.
- 58. Garbarino, J.R. and Taylor, H.E., 1984, Trace Analysis <u>In</u> Lawrence, J.R., ed., Recent Developments and Applications of ICP Emission Spectroscopy to Trace Elemental Analysis of Water, *Academic Press, v. 4.*, 186.
- 59. Garbarino, J.R., Jones, B.E., Stein, G., Belser, W.T. and Taylor, H.E., 1985, Statistical Evaluation of an Inductively coupled Plasma-Atomic Emission Spectrometric Method for Routine Water Quality Testing: *Appl. Spectrosc.*, 39, 535.
- 60. Garbarino, J.R., Steinheimer, T.R. and Taylor, H.E., 1985, Water Analysis: *Anal. Chem., 57*, p. 46R-88R.
- 61. Skogerboe, R.K., Hanagan, W.A. and Taylor, H.E., 1985, Concentration of Trace Elements in Water Samples by Reductive Precipitation: *Anal. Chem.*, *57*, 2815.
- 62. Taylor, H.E. and Averett, R.C., 1985, <u>In</u> Lekkas, T.D., ed., The Occurrence of Heavy Metals in Dilute Lake Environments, , *Proceedings Heavy Metals in the Environment*, Athens, Greece, v. 1, 249.
- 63. Taylor, H.E. and Laird, L.B., 1985, <u>In</u> Lekkas, T.D., ed., Analytical Techniques for the Measurement and Distribution of Heavy Metals from Snow Cores Obtained from the Cascade-Sierra Nevada Mountains in the

- Western United States, *Proceedings Heavy Metals in the Environment*, Athens, Greece, v. 1, 162.
- 64. Taylor, H.E., 1985, Atomic Emission Spectrometry, <u>In</u> Methods for Determination of Inorganic Substances in Water and Fluvial Sediments: *U.S. Geological Survey Open-File Report, No. 85-495, 709 p.*
- 65. Laird, L.B., Taylor, H.E. and Kennedy, V.C., 1986, Snow Chemistry of the Cascade-Sierra Nevada Mountains: *Environ. Sci. & Tech., 20,* 275.
- 66. Laird, L.B., Taylor, H.E. and Lombard, R.E., 1986, Data on Snow Chemistry of the Cascade-Sierra Nevada Mountain: *U.S. Geological Survey Open-file Report, No. 86-61, 25 p.*
- 67. Stec, R.J., Koirtyohann, S.R. and Taylor, H.E., 1986, Preconcentrations of Trace Elements from Aqueous Solutions by Osmosis: *Anal. Chem., 58*, 32.
- 68. Taylor, H.E., 1987, Analytical Methodology for the Measurement of the Chemical Composition of Snow Cores from the Cascade/Sierra Nevada Mountain Ranges, <u>In</u> Averett, R.C. and McKnight, D.M., eds., *Chemical Quality of Water and the Hydrological Cycle*, Lewis Pub., p. 55.
- 69. Taylor, H.E. and Garbarino, J.R., 1987, Stable Isotope Dilution Analysis of Hydrologic Samples by ICP/MS: *Anal. Chem.*, 1568.
- 70. Shekiro, J.M., Skogerboe, R.K. and Taylor, H.E., 1987, Crude Oil Identification with Electrothermal Vaporization-Multiple Wavelength Absorption Spectrometry: *Chemosphere Journal, 16*, 983.
- 71. Taylor, H.E., 1986, Inductively coupled argon Plasma Mass Spectrometry An Overview: *Spectroscopy, 1*, 20.
- 72. Taylor, H.E., 1987, Techniques for Quantifying Trace Metals in Environmental Water Samples Using ICP-MS, *Proceedings Ninth Australian Symposium on Analytical Chemistry*, Brisbane, Australia, v. 2, 625.
- 73. Taylor, H.E. and Garbarino, J.R., 1987, Evaluation of the Accuracy and Precision of Stable Isotope Ratio Measurements by Inductively coupled Plasma Mass Spectrometry, *Proceedings XXV Colloquium Spectroscopicum Internationale*, 146.
- 74. Brenner, I.B., Garbarino, J.R. and Taylor, H.E., 1987, Evaluation of Inductively-coupled Plasma Mass Spectrometry (ICP-MS) for the Measurement of the ⁸⁷Sr/⁸⁶Sr in Waters, *Proceedings XXV Colloquium Spectroscopicum Internationale*, 156.
- 75. Brenner, I.B., Taylor, H.E. and Garbarino, J.R., 1987, Direct Analysis of Saline Waters by ICP-MS, Experimental Evaluation of Interference Effects, *Proceedings XXV Colloquium Spectroscopicum Internationale*, 166.
- 76. Koirtyohann, S.R., Stec, R.J. and Taylor, H.E., 1987. Osmosis and Reverse Osmosis as Preconcentration Steps Prior to Spectroscopic Analysis, *Proceedings XXV Colloquium Spectroscopicum Internationale*, 189.

- 77. Taylor, H.E. and Garbarino, J.R., 1988, Assessment of the Analytical Capabilities of Inductively-coupled Plasma Mass Spectrometer: *J. of Res. Nat. Bureau of Standards, 93*, 433.
- 78. Shekiro, J.M. Jr., Skogerboe, R.K. and Taylor, H.E., 1988, Mechanistic Characterization of Chloride Interferences in Electrothermal Atomization Systems: *Anal. Chem.*, *60*, 2561.
- 79. Shekiro, J.M. Jr., Skogerboe, R.K. and Taylor, H.E., 1988, Use of Electrothermal Vaporization-Multiple Wavelength Absorption Spectrometry to Qualitatively Screen for the Presence of Polynuclear Aromatic Hydrocarbons: *Environ. Sci. Tech., 22*, 338.
- 80. Taylor, H.E., Beaulieu, P.R. and Skogerboe, R.K., 1988, Design and Operation of a Multielement Photodiode-Array Atomic Absorption Spectrometer: *U.S. Geological Survey Open-File Report*, No. 87-4206, 19 p.
- 81. Taylor, H.E. and Garbarino, J.R., 1989, The Occurrence & Distribution of Selected Trace Metals in the IHHS Standard Humic and Fulvic Acids: *U.S. Geological Survey Open-File Report*, No. 87-557, 14 p.
- 82. Garbarino, J.R., Taylor, H.E. and Batie, W., 1989, Simultaneous Determination of Major and Trace Elements by Inductively coupled Plasma Mass Spectrometry/Optical Emission Spectrometry: *Anal. Chem.*, 61, 793.
- 83. Taylor, H.E., 1989, Water Resources <u>In</u> Date, A.R. and Gray, A.L., eds., *Applications of Inductively-coupled Plasma Mass Spectrometry*, Blackie, London, p. 71.
- 84. Naftz, D.L., H.E. Taylor, J.R. Ranville, and J.A. Rice, 1989, Glacier-Ice Geochemistry, Knife Point Glacier, Wind River Range, Wyoming--Reconnaissance-Phase Results, *EOS Transactions*, American Geophysical Union 70(43), 1084.
- 85. Leenheer, J.A., Meade, R.H., Taylor, H.E. and Pereira, W.E., 1989, Sampling, Fractionation and Dewatering of Suspended Sediment from the Mississippi River for Geochemical and Trace-contaminant Analysis, in Mallard, G.E. and Ragone, S.E., eds., U.S. Geological Survey Toxic Substances Hydrology Program--Proceedings of the Technical Meeting, Phoenix, Arizona, September 26-30, 1988: U.S. Geological Survey Water-Resources Investigations Report 88-4220, 501.
- 86. Taylor, H.E., J.R. Garbarino and T.I. Brinton, 1990, The Occurrence and Distribution of Trace Metals in the Mississippi River and it's Tributaries: *The Sci. of the Total Environ.*, 97/98, 369.
- 87. Taylor, H.E., and Garbarino, J.R., 1991, The Measurement of Trace Metals in Water Resource Monitoring Samples by Inductively-coupled Plasma Mass Spectrometry. *Spectrochim. Acta Rev.*, 14, 33.
- 88. Taylor, H.E. and Averett, R.C., 1991, Description of Water Quality Synoptic Experiments in the Colorado River, *in* Mallard, G.E., and Aronsen, D.A., eds., U.S. Geological Survey Toxic Substances Hydrology Program--

- Proceedings of the technical meeting, Monterey, California, March 11-15, 1991: *U.S. Geological Survey Water-Resources Investigations Report 91-4034*, p. 576.
- 89. Taylor, H.E., 1991, Snow Chemistry in Cascade-Sierra Ranges, *Northwest Science*, 65, 253.
- 90. Taylor, H.E., Garbarino, J.R. and Koirtyohann, S.R., 1991, Flame Ionization Mass Spectrometry: Isotope Ratio Determinations for Potassium, *Appl. Spectrosc.*, 45/5, 886.
- 91. Taylor, H.E. and Garbarino, J.R., 1992, Analytical Applications of Inductively Coupled Plasma-Mass Spectrometry, <u>In</u> Montaser, A. and Golightly, D.W., eds., *Inductively Coupled Plasmas in Atomic Spectrometry, 2nd Edition,* VCH Pub., New York, p.651.
- 92. Taylor, H.E. and Garbarino, J.R., Murphy, D.M. and Beckett, R., 1992, Inductively coupled Plasma-Mass Spectrometry as an Element Specific Detector for Field-Flow Fractionation Particle Separation, *Anal. Chem.*, 64, 2036.
- 93. Brenner, I.B. and Taylor, H.E., 1992, A Critical Review of Inductively Coupled Plasma-Mass Spectrometry for Geoanalysis, Geochemistry, and Hydrology, Part 1., Analytical Performance. *Crit. Rev. in Anal. Chem.*, 11, 452.
- 94. Taylor, H.E., Averett, R.C. and Mazzu, L., 1993, Measuring Colorado River Water Quality in the Grand Canyon, NP, *Park Sci.*, Winter issue, 12.
- 95. Taylor, H.E., Shiller, A.M., Garbarino, J.R., and Brinton, T.I., 1993, Dissolved trace metal data from intercomparison experiments in the Mississippi River and its tributaries, between the U.S. Geological Survey's National Stream Quality Accounting Network and the University of Southern Mississippi: *U.S. Geological Survey Open-File Report* No. 93-628, 39 p.
- 96. Murphy, D.M., Garbarino, J.R., Taylor, H.E., Hart, B.T. and Beckett, R., 1993, Determination of size and element composition distributions of complex colloids by sedimentation field-flow fractionation-inductively coupled plasma mass spectrometry: *J. Chromatog.*, 642, 459.
- 97. Antweiler. R.C., Patton, C.J., and Taylor, H.E., 1993, automated, colorimetric methods for determination of nitrate plus nitrite, ammonium and orthophosphate ions in natural water samples: *U.S. Geological Survey Open-File Report* No. 93-638, 40 p.
- 98. Brenner, I.B., Nishri, A., Taylor, H.E. and Garbarino, J.R., 1993, Trace metal distribution in Lake Kinneret waters investigation of the mode of occurrence of metals in the lake system: *Israel Oceanographic and Limnological Research Report* TR-GSI/13/93, 35 p.
- 99. Taylor, H.E., Antweiler, R.C., Brinton, T.I., Roth, D.A., and Moody, J.A., 1994, Major Ions, Nutrients and Trace Elements in the Mississippi River near Thebes, Illinois, July through September, 1993 in Floods in the Upper

- Mississippi River Basin, 1993: *U.S. Geological Survey Circular 1120-D*, 21 p.
- 100. Brenner, I.B., Nishri, A., Taylor, H.E. and Hall, G.E.M., 1994, Trace Metal Distribution in Lake Kinneret Waters Investigation of the Mode of Occurrence of Metals in the Lake System, Interim 3rd. year report: *Israel Oceanographic and Limnological Research Report* TR-GSI/12/94, 27 p.
- 101. Taylor, H.E. and Shiller, A.M., 1995, Mississippi River Methods Comparison Study: Implications for Water Quality Monitoring of Dissolved Trace Elements: *Environ. Sci. Tech., 29*, 1313.
- 102. Brinton, T.I., Garbarino, J.R., Peart, D.B., Taylor, H.E. and Antweiler, R.C., 1995, Concentration and Transport Data for Dissolved Inorganic Constituents in Water Collected During Seven Cruises on the Mississippi River and Some of its Tributaries, July 1987 June 1990: *U.S. Geological Survey Open-File Report 94-524*, 102 p.
- 103. Garbarino, J.R. and Taylor, H.E., 1996, Inductively Coupled Plasma-Mass Spectrometric Method for the Determination of Dissolved Trace Elements in Natural Water: *U.S. Geological Survey Open-File Report No. 94-358*, 88 p.
- 104. Naftz, D.L., Klusman, R.W., Michel, R.L., Schuster, P.F., Reddy, M.M., Taylor, H.E. and Yanosky, T.M., 1996, The Little Ice Age Recorded in an Ice Core from South-Central North America: *Artic and Alpine Research*, 28, No. 1,
- 105. Antweiler, R.C., Goolsby, D.A., and Taylor, H.E., 1996, Nutrients in the Mississippi River, *in* Meade, R.H., ed., Contaminants in the Mississippi River, 1987-1992: *U.S. Geological Survey Circular 1133, p. 72-85*.
- 106. Garbarino, J.R. Hayes, H.C., Roth, D.A., Antweiler, R.C., Brinton, T.I. and Taylor, H.E., 1996, Heavy Metals in the Mississippi River, *in* Meade, R.H., ed., Contaminants in the Mississippi River, 1987-1992: *U.S. Geological Survey Circular 1133, p. 52-71*.
- 107. Garbarino, J.R., Antweiler, R.C., Brinton, T.I., Roth, D.A. and Taylor, H.E., 1995, Concentration and Transport Data for Selected Dissolved Inorganic Constituents and Dissolved Organic Carbon in Water Collected from the Mississippi River and Some of its Tributaries, July 1991-May 1992: *U.S. Geological Survey Open-File Report 95-149, p. 149*
- 108. Antweiler, R.C., Patton, C.J., and Taylor, H.E., 1995, Nutrients, in Moody, J.A., ed., Chemical Data for Water Samples Collected During Four Upriver Cruises on the Mississippi River Between New Orleans, Louisiana, and Minneapolis, Minnesota, May 1990-April 1992: *U.S. Geological Survey Open-File Report 94-523, p. 89-92*
- 109. Roth, D.A., Garbarino, J.R., and Taylor H.E., 1995, Major and trace elements, in Moody, J.A., ed., Chemical Data for Water Samples Collected During Four Upriver Cruises on the Mississippi River Between New Orleans, Louisiana, and Minneapolis, Minnesota, May 1990-April 1992: U.S. Geological Survey Open-File Report 94-523, p. 127-138

- 110. Brinton, T.I., Antweiler, R.C., and Taylor, H.E., 1996, Method for the Determination of Dissolved Chloride, Nitrate and Sulfate in Natural Water Using Ion Chromatography: *U.S. Geological Survey Open-File Report 95-426, 38 p.*
- 111. Kelly, T. and Taylor, H.E., 1996, Concentrations and Loads of Selected Trace Elements and Other Constituents in the Rio Grande, in the Vicinity of Albuquerque, New Mexico, 1994: *U.S. Geological Survey Open-File Report 96-126, p. 1-45*.
- 112. Taylor, H.E., Peart, D.B., Antweiler, R.C., Brinton, T.I., Campbell, W.L., Garbarino, J.R., Roth, D.A., Hart, R.J., and Averett, R.C., 1996, Data from Synoptic Water-Quality Studies on the Colorado River in the Grand Canyon, Arizona, November 1990 and June 1991: *U.S. Geological Survey Open-File Report*, No. 96-614 176 p.
- 113. Roth, D.A., Hayes, H.C., Antweiler, R.C., Brinton, T.I., Garbarino, J.R., Peart, D.B., and Taylor, H.E., 1996, Major Elements, Trace Elements and Nutrients, Chapter 4 in Moody, J.A., ed., Hydrologic, Sedimentologic, and Chemical Data Describing Surficial Bed Sediments in the Navigation Pools of the Upper Mississippi River, July 1991-April 1992: *U.S. Geological Survey Open-File Report No. 95-708, pp.* 109-134.
- 114. Shiller, A.M. and Taylor, H.E., 1996, Comment on "Problems Associated with Using Filtration to Define Dissolved Trace Element Concentrations in Natural Water Samples": *Environmental Science and Technology*, 30, 3397.
- 115. Antweiler, R.C. and Taylor, H.E., 1997, Spatial Distribution of Nutrients in the Mississippi River System (1991-1992): *Proceedings of Gulf of Mexico Hypoxia Conference*, U.S. Environmental Protection Agency, Kenner, LA. 133.
- 116. Taylor, H.E., Berghoff, K., Andrews, E.D., Antweiler, R.C., Brinton, T.I., Miller, C., Peart, D.B., and Roth, D.A., 1997, Water Quality of Springs and Seeps in Glen Canyon National Recreation Area: *National Park Service Technical Report* NPS/NRWRD/NRTR-97/128, 26 p.
- 117. Taylor, H.E. and Shiller, A.M., 1997, The Use of Sedimentation Field Flow Fractionation-Inductively Coupled Plasma Mass Spectrometry for the Chemical Characterization of Suspended Particulate Matter in Environmental Hydrologic Systems, in Wanty, R.B., Marsh, S.P., and Gough, L.P., eds. 4th International Symposium on Environmental Geochemistry Proceedings: U.S. Geological Survey Open-File Report OF97-496, 100 pp.
- 118. Roth, D.A., Antweiler, R.C., Brinton, T.I., and Taylor, H.E., 1997, Major and Trace Elements, Chapter 5 in Moody, J.A., ed., Hydrologic, Sedimentologic, and Chemical Data Describing Surficial Bed Sediments in Navigation Pools in the Upper Mississippi River, After the Flood 1993: *U.S. Geological Survey Open-File Report No. 95-580, pp. 91-107*

- 119. Edwards, M., Patel, S., McNeil, L., Chen, H.W., Frey, M., Eaton, A.D., Antweiler, R.C. and Taylor, H.E., 1998, Considerations in As Analysis and Speciation: *Journal of the American Water Works Association*, 3, 103.
- 120. Taylor, H.E., 1998, Novel Applications of Plasma Source Mass Spectrometry, in Montaser, A., ed., *Inductively Coupled Plasma Mass Spectrometry*, A to Z, VCH Pub., New York. pp. 681-807.
- 121. Peart, D.B., Antweiler, R.C., Taylor, H.E., Roth, D.A., and Brinton, T.I.: 1998, A Reevaluation and Extension of the Scope of Elements in the U.S. Geological Survey Standard Reference Water Samples, *Analyst*, 003, 455.
- 122. Cain, D.J., Carter, J.L., Fend, S.V., Luoma, S.N., Alpers, C.N. and Taylor, H.E., 1998, Metal exposure to a benthic invertebrate, *Hydropsyche californica*, in the Sacramento River downstream of Keswick Reservoir, California, *U.S. Geological Survey Open-File Report No. 98-654*, p. 26.
- 123. Nishri, A., Brenner, I.B., Hall, G.E.M., and Taylor, H.E., 1999, Temporal Variations in Dissolved Se in Lake Kinneret (Israel): *Aquatic Science*, 61, 215-233.
- 124. Moody, J.A., Sullivan, J.F. and Taylor, H.E., 1999, Effects of the Flood of 1993 on the Chemical Characteristics Bed Sediments in the Upper Mississippi River: Water, Air and Soil Pollution, 76, 120.
- 125. Nordstrom, D.K., Alpers, C.N., Coston, J.A., Taylor, H.E., McCleskey, R.B., Ball, J.W., Ogle, S. and Davis, J., 1999, Geochemistry, toxicity and sorption properties of contaminated sediments and pore waters for two reservoirs receiving acid mine drainage. Morganwalp, D.W. and Buxton, H.T., eds., U.S. Geological Survey Toxic Substances Hydrology Program—Proceedings of the Technical Meeting, Charleston, South Carolina, March 8-12, 1999—Volume 1—Contamination from Hardrock Mining: *U.S. Geological Survey—Water Resources Investigations Report* 99-4018A, p. 289-296..
- 126. Verplanck, P.L., Nordstrom, D.K., Taylor, H.E., 1999, Overview of rare earth element investigations in acid waters of U.S. Geological Survey abandoned mine lands watersheds, Morganwalp, D.W. and Buxton, H.T., eds., U.S. Geological Survey Toxic Substances Hydrology Program—Proceedings of the Technical Meeting, Charleston, South Carolina, March 8-12, 1999—Volume 1—Contamination from Hardrock Mining: *U.S. Geological Survey—Water Resources Investigations Report* 99-4018A.
- 127. Durand, S., Shelley, P.H., Antweiler, R.C. and Taylor, H.E., 1999, Trees, Chemistry, and Prehistory in the American Southwest, *Journal of Archaeological Sciences*, 26, 132.
- 128. Alpers, C.N., Taylor, H.E., and Domagalski, J.J., eds., 2000, Metals transport in the Sacramento River, California, 1996-97: Volume 1. Methods and Data: *U.S. Geological Survey Water-Resources Investigations Report* 99-4286, 428 p.
- 129. Alpers, C.N., Taylor, H.E., Roth, D.A., Cain, D.J., Ball, J.W., Unruh, D.M., and Dileanis, P.D., 2000, Study design: field and laboratory methods, *in*

- Alpers, C.N., Taylor, H.E., and Domagalski, J.J., eds.: Metals transport in the Sacramento River, California, 1996-97: Volume 1. Methods and Data: *U.S. Geological Survey Water-Resources Investigations Report* 99-4286, p. 19 37.
- 130. Taylor, H.E., Antweiler, R.C., Alpers, C.N., Roth, D.A., Brinton, T.I., Cain, D.J., Ball, J.W., Unruh, D.M., and Dileanis, P.D., 2000, Quality assurance and quality control, *in* Alpers, C.N., Taylor, H.E., and Domagalski, J.J., eds.: Metals transport in the Sacramento River, California, 1996-97: Volume 1. Methods and Data: *U.S. Geological Survey Water-Resources Investigations Report* 99-4286, p. 38 61.
- 131. Antweiler, R.C., Dileanis, P.D., Alpers, and Taylor, H.E. 2000, Results, *in* Alpers, C.N., Taylor, H.E., and Domagalski, J.J., eds.: Metals transport in the Sacramento River, California, 1996-97: Volume 1. Methods and Data: *U.S. Geological Survey Water-Resources Investigations Report* 99-4286, p. 62 97.
- 132. Alpers, C.N., Taylor, H.E., and Domagalski, J.J., 2000, Summary and Conclusions, *in* Alpers, C.N., Taylor, H.E., and Domagalski, J.J., eds.: Metals transport in the Sacramento River, California, 1996-97: Volume 1. Methods and Data: *U.S. Geological Survey Water-Resources Investigations Report* 99-4286, p. 98 99.
- 133. Alpers, C.N., Antweiler, R.C., Taylor, H.E., Dileanis, P.D. and Domagalski, J.J., 2000, Metals transport in the Sacramento River, California, 1996-97: Volume 2: Interpretation of metal loads: *U.S. Geological Survey Water-Resources Investigations Report* 00-4002, 106 p.
- 134. Cain, D.J., Carter, J.L., Fend, S.V., Luoma, S.N., Alpers, C.N. and Taylor, H.E., 2000, Metal exposure to a benthic invertebrate, *Hydropsyche californica*, related to mine drainage in the Sacramento River: *Canadian Journal of Fisheries and Aquatic Sciences*, 57, p 380-390.
- 135. Taylor, H.E., 2000, Inorganic Substances, Mass Spectrometric in the Analysis of, in Meyers, R.A., ed.: *Encyclopedia of Analytical Chemistry*, John Wiley and Sons, Chichester, Great Britain, p. 11761-11773.
- 136. Taylor, H.E., 2001, *Inductively Coupled Plasma-Mass Spectrometry: Practices and Techniques*, Academic Press, New York, 294 p.
- 137. Verplanck, P.L., Antweiler, R.C., Nordstrom, D.K., and Taylor, H.E., 2001, Standard reference water samples for rare earth element determinations, *Applied Geochemistry*, 16, p. 231-244.
- 138. Cordell, L.S., Durand, S.R., Antweiler, R.C., and Taylor, H.E. (2001)
 Toward Linking Maize Chemistry to Archaeological Agricultural Sites in the North American Southwest, *Journal of Archaeological Science*, 28, 5, 501-513.
- 139. Taylor, H.E., Antweiler, R.C., Roth, D.A., Brinton, T.I., Peart, D.B., and Healy, D.F., (2001) The Occurrence and Distribution of Selected Trace Metals in the Upper Rio Grande and Tributaries in Colorado and Northern

- New Mexico, *Archives of Environmental Contamination and Toxicology*, 41, 410-426.
- 140. Roth, D.A., Taylor, H.E., Domagalski, J., Dileanis, P., Peart, D.B., Antweiler, R.C. and Alpers, (2001) Distribution of inorganic mercury in Sacramento River water and sediments, *Archives of Environmental Contamination and Toxicology*, 40, 161-172.
- 141. Turk, J.T., Taylor, H.E., Ingersoll, G.P., Tonnessen, K.A., Clow, D.W., Mast, M.A., Campbell, D.H., and Melak, J.M., (2001) Major Ion Chemistry of the Rocky Mountain Snowpack, USA, *Atmospheric Environment*, *35*, 3957-3966.
- 142. Shanley, J.B., Schuster, P.F., Reddy, M.M., Roth, D.A., Taylor, H.E., and Aiken, G.R., 2002. Mercury on the move during snowmelt in Vermont, *EOS*, Transactions, American Geophysical Union, 83, 45, 47-48.
- 143. Schmitt, D., Taylor, H.E., Aiken, G.R., Roth, D.A., and Frimmel, F.H., 2002, Influence of Natural Organic Matter on the Absorption of Metal Ions onto Clay Minerals, *Environmental Science and Technology*, 36, 2932-2938.
- 144. Hart, R.J., Rihs, J., Taylor, H.E., and Monroe, S.A., 2002, Assessment of spring chemistry along the south Rim of Grand Canyon in Grand Canyon National Park, Arizona: *U.S. Geological Survey Fact Sheet 096-02.*
- 145. Benson, L., Barber, D., Andrews, J.T., Taylor, H.E., and Lamothe, P., 2003, Rare Earth Elements and Nd and Pb Isotopes as Source Indicators for Glacial Marine Sediments and North Atlantic "Heinrich Events", *Quaternary Science Reviews, 22, 5, 546-555.*
- 146. Barber, L.B, Keefe, S.H., Brown, G.K., Taylor, H.E., Antweiler, R.A., Peart, D.B., Plowman, T.I., and Roth, D.A., 2003, Organic and trace element contaminants in water, biota, sediments, and semi-permeable membrane devices at the Tres Rios demonstration wetlands, Phoenix, Arizona: *U.S. Geological Survey Water-Resources Investigations Report* 03-4129, 103 p.
- 147. Landers, D.H., Simonich, S.L., Campbell, D.H., Erway, M.M., Geiser, L.H., Jaffe, D.A., Kent, M.L., Shreck, C.B., Blett, T.F., and Taylor, H.E., 2003, Western Airborne Contaminants Assessment Program Research Plan. EPA/600/R-03/035. *U.S. Environmental Protection Agency, Office of Research and Development*, NHEERL, Western Ecology Division, Corvallis, OR.
- 148. Benson, L.B., Cordell, L., Vincent, K., Taylor, H., Stein, J., Farmer, G.L., and Futa, K., 2003, Ancient Maize from Chacoan great houses: Were was it grown?, Proceedings of National Academy of Sciences, 100, 13111-13115.