

Ann T. Lemley
Professor Emerita

Department of Fiber Science & Apparel Design
Cornell University
Ithaca, New York 14853-4401

e-mail: atl2@cornell.edu

EDUCATION

Ph.D., Chemistry, Cornell University, (1971).

M.S., Chemistry, Cornell University, (1970).

B.A., Chemistry and Education, magna cum laude, St. John's University, (1966).

EMPLOYMENT

Professor Emerita (2014 – present), Professor (1993 – 2013), Chair (1995 – 2011), Associate Professor (1985 - 1993) Department of Fiber Science and Apparel Design and Graduate Field of Environmental Toxicology, Cornell University, Ithaca, New York.

Assistant Professor (1980 - 1985) Department of Design and Environmental Analysis, Cornell University, Ithaca, New York.

Research Associate (1977 - 1979) Department of Applied and Engineering Physics, Cornell University, Ithaca, New York.

NIH Post-doctoral Fellow (1975 - 1977) Department of Applied and Engineering Physics, Cornell University, Ithaca, New York.

Lecturer (1971 - 1972, 1974 - 1975) Department of Chemistry, Cornell University, Ithaca, New York.

Research Associate (1972 - 1974) Department of Chemistry, University of Texas at Austin, Austin, Texas.

Research Assistant (1969 - 1971) Department of Chemistry, Cornell University, Ithaca, New York.

Teaching Assistant (1966 - 1969) Department of Chemistry, Cornell University, Ithaca, New York.

HONORS

Fellow of Agrochemicals Division of the American Chemical Society, 2007

USDA Impact 2000 Award for Exemplary Extension Programming, Rural Water Quality Education, April, 1993.

Gamma Sigma Delta Honor Society of Agriculture, Cornell Chapter, Extension Award of Merit, May, 1992.

Winner of the U.S. Environmental Protection Agency Region 2 Environmental Quality Award for

Academia/Research, 1989.

Distinguished Visiting Scientist, University of California at Davis and California Department of Food and Agriculture, February, 1987.

Published Article named Editor's Choice: Zeng, Hanna, and Lemley, *J. Mol. Catal. A: Chem.* 339:1–7 (2011).

REFEREED PUBLICATIONS

S.-P. Sun, X. Zeng, C. Li and A.T. Lemley. Enhanced heterogeneous and homogeneous Fenton-like degradation of carbamazepine by nano-Fe₃O₄/H₂O₂ with nitrilotriacetic acid. *Chem. Eng. J.* 244:44-49 (2014).

K. Neafsey Engler and A.T. Lemley. Development of an in vitro Thin-Film Solid-Phase Microextraction Method to Determine the Bioavailability of Xenoestrogens in Soil. *Environ. Tox. and Chem.* 32(9):1962-1968 (2013).

S.-P. Sun, X. Zeng and A.T. Lemley. Kinetics and mechanism of carbamazepine degradation by a modified Fenton-like reaction with ferric-nitrilotriacetate complexes. *J. Haz. Materials.* 252-253:155-165 (2013).

S.-P. Sun, X. Zeng and A.T. Lemley. Nano-magnetite catalyzed heterogeneous Fenton-like degradation of emerging contaminants carbamazepine and ibuprofen in aqueous suspensions and montmorillonite clay slurries at neutral pH. *J. Mol. Catal. A: Chem.* 371:94-103 (2013).

X. Xiao, S.-P. Sun, M.B. McBride and A.T. Lemley. Degradation of ciprofloxacin by cryptomelane-type manganese(III/IV) oxides. *Env. Sci. Pollut. Res.* 20(1): 10-21 (2013).

S.-P. Sun and A.T. Lemley. p-Nitrophenol degradation by a heterogeneous Fenton-like reaction on nano-magnetite: Process optimization, kinetics, and degradation pathways. *J. Mol. Catal. A: Chem.* 349: 71– 79 (2011).

X. Zeng, K. Hanna and A.T. Lemley. Cathodic Fenton degradation of 4,6-dinitro-ortho-cresol. *J. Mol. Catal. A: Chem.* 339:1–7 (2011).

X. Xiao, X. Zeng and A.T. Lemley. Species-dependent degradation of ciprofloxacin in a membrane anodic Fenton system. *J. Ag. and Food Chem.* 58 (18):10169–10175 (2010).

K. Neafsey, X. Zeng and A.T. Lemley. Degradation of sulfonamides in aqueous solution by membrane anodic Fenton treatment. *J. Ag. and Food Chem.* 58 (2):1068–1076 (2010).

X. Zeng and A.T. Lemley. Fenton Degradation of 4,6-dinitro-o-cresol with Fe²⁺ Substituted Ion Exchange Resin. *J. Ag. and Food Chem.* 57(9):3689–3694 (2009).

P. Ye and A.T. Lemley. Adsorption effect on the degradation of 4,6-o-dinitrocresol and p-nitrophenol in a montmorillonite clay slurry by AFT. *J. Water Res* 43:1303–1312 (2009).

P. Ye, L. Kong and A.T. Lemley. Kinetics of carbaryl degradation by anodic Fenton treatment in a humic

- acid amended artificial soil slurry. *Wat. Env. Res.* 81:29-39 (2009).
- P. Ye and A.T. Lemley. Adsorption effect on the degradation of carbaryl, mecoprop and paraquat by Anodic Fenton Treatment in an Swy-2 montmorillonite clay slurry. *J. Ag. and Food Chem.* 56 (21):10200–10207 (2008).
- H. Zhang and A.T. Lemley. Evaluation of the performance of flow-through anodic Fenton treatment in amide compounds degradation. *J. Ag. Food Chem.* 55:4073-4079 (2007).
- L. Kong and A.T. Lemley. Effect of nonionic surfactants on the oxidation of carbaryl by anodic Fenton treatment. *J. Water Res.* 41: 2794-2802 (2007).
- S. Hong, H. Zhang, C.M. Duttweiler and A.T. Lemley. Degradation of methyl tertiary butyl ether (MTBE) by anodic Fenton treatment. *J. Haz. Mat.* 144:29-40 (2007).
- L. Kong and A.T. Lemley. Modeling evaluation of carbaryl degradation in a continuously stirred tank reactor by anodic Fenton treatment. *J. Ag. Food Chem.* 54:10061-10069 (2006).
- H. Zhang and A.T. Lemley. Reaction mechanism and kinetic modeling of DEET degradation by flow-through anodic Fenton treatment (FAFT). *Environ. Sci. & Tech.* 40:4488-4494 (2006).
- L. Kong and A.T. Lemley. Kinetic modeling of 2,4-D degradation in soil slurry by anodic Fenton treatment. *J. Ag. Food Chem.* 54:3941-3950 (2006).
- C.L. Friedman, A.T. Lemley and A.Hay. Degradation of chloroacetanilide herbicides by anodic Fenton treatment. *J. Ag. Food Chem.* 54:2640-2651 (2006).
- S.E. Bloom, A.T. Lemley and D.E. Muscarella. Potentiation of apoptosis by heat stress plus pesticide exposure in stress resistant human B-lymphoma cells and its attenuation through interaction with follicular dendritic cells: role for c-jun N-terminal kinase signaling. *Toxicol. Sci.* 89(1):214-223 (2006).
- S. K. Obendorf, A.T. Lemley, A. Hedge, A.A. Kline, K. Tan and T. Dokuchayeva. Distribution of pesticide residues within homes in central New York state. *Arch. Environ. Contam. Toxicol.* 50:31-44 (2006).
- Q. Wang and A.T. Lemley. Reduced adsorption of ametryn in clay, humic acid, and soil by interaction with ferric ion under Fenton treatment conditions, *J. Environ. Sci. Health Part B* 41:223-236 (2006).
- L. Wagenet, A. Lemley, D. Grantham, E. Harrison, K. DiTella, K. Mathers and L.H. Younge. Evaluating the effectiveness of public television as a method for watershed education *J. of Extens.* (www.joe.org) 43(2): Article No. 2FEA5 (2005).
- Q. Wang and A.T. Lemley. Kinetic effect of humic acid on alachlor degradation by anodic Fenton treatment. *J. Environ. Quality*, 33:2343-2352 (2004).
- E. Scherer, Q, Wang, A. G. Hay and A.T. Lemley. The binary treatment of aqueous metribuzin using anodic Fenton treatment and biodegradation. *Arch. Environ. Contam. Toxicol.*, 47: 154-161 (2004).
- Q. Wang, E. Scherer and A.T. Lemley. Metribuzin Degradation by Membrane Anodic Fenton Treatment

and Its Interaction with Ferric Ion. *Env. Sci and Toxicol.* 38:1221-1227 (2004).

A.T. Lemley, Q. Wang and D.A. Saltmiras. Anodic Fenton degradation of pesticides. In Pesticide Decontamination and Detoxification, eds, J.J. Gan, P.C. Zhu, S.D. Aust, A.T., Lemley, ACS Symposium Series 863:65-83 (2003).

Q. Wang and A.T. Lemley. Competitive degradation and detoxification of carbamate insecticides by membrane anodic Fenton treatment. *J. Ag. Food Chem.*, 51(18):5382-5390 (2003).

A.A. Kline, A.J. Landers, A. Hedge, A. Lemley, S.K. Obendorf and T. Dokuchayeva. Pesticide exposure levels on surfaces within sprayer cabs. *App. Eng. In Agric.*, 19(4):397-404 (2003).

D.E. Muscarella, K.A. O'Brien, A.T. Lemley and S.E. Bloom. Reversal of Bcl-2 mediated resistance of the EW36 human B-cell lymphoma cell line to arsenite and pesticide-induced apoptosis by PK11195, a ligand of the mitochondrial benzodiazepine receptor. *Toxicological Sci.*, 74:66-73, (2003).

Q. Wang and A.T. Lemley. Oxidative degradation and detoxification of aqueous carbofuran by membrane anodic Fenton treatment. *J. Haz. Materials* B98:241-255 (2003).

D.A. Saltmiras and A.T. Lemley. Atrazine degradation by anodic Fenton treatment. *Wat. Res.*, 36: 5113-5119 (2002).

Q. Wang and A.T. Lemley. Oxidation of diazinon by anodic Fenton treatment. *Wat. Res.*, 36:3237-3244 (2002).

A.T. Lemley, A. Hedge, S.K. Obendorf, S. Hong, J. Kim, T. Muss and C. Varner. Selected pesticide residues in house dust from farmers' homes in central New York State. *Bull. Environ. Contam. and Tox.*, 69:155-163 (2002).

Q. Wang and A.T. Lemley. Oxidation of carbaryl in aqueous solution by membrane anodic Fenton treatment, *J. Ag. Food Chem.*, 50:2331-2337 (2002).

Q. Wang and A.T. Lemley. Kinetic model and optimization of 2,4-D degradation by anodic Fenton treatment. *Environ. Sci. Technol.*, 35:4509-4514 (2001).

D.A. Saltmiras and A.T. Lemley. Anodic Fenton treatment of treflan MTF[®]. *J. Environ. Sci. Health* A36(3): 261-274 (2001).

S. Hong, J. Kim, A.T. Lemley, S.K. Obendorf and A. Hedge. Analytical method development for 18 pesticides in house dust and settled residues using size exclusion chromatography, solid phase extraction, trimethylsilyldiazomehtane methylation and gas chromatography coupled with mass spectrometry. *J. Chromatograph. Sci* 39(3):101-112 (2001).

D.A Saltmiras and A.T. Lemley. Degradation of ethylene thiourea (ETU) with three Fenton treatment processes. *J. Ag and Food Chem.* 48:6149-6157 (2000).

S. Hong, C.M. Duttweiler and A.T. Lemley. Analysis of methyl *tert.*-butyl ether and its degradation products by direct aqueous injection onto gas chromatography with mass spectrometry or flame ionization detection systems. *J. Chromatograph. A.* 857:205-216 (1999).

- S.A.Karunaratne DeFazio and A.T. Lemley. Electrochemical treatment of acid dye systems: sodium meta-bisulfite addition to the Andco system. *J. Environ. Sci. Health A* 34(2): 217-240 (1999).
- J.J. Schwartz, A. B. Waterman, A.T. Lemley, L.P. Wagenet, P. Landre and D.J. Allee. Homeowner perceptions and management of private water supplies and wastewater treatment systems. *J. Soil and Water Conserv.* 53(4):315-319 (1998).
- S. Hong and A.T. Lemley. Gas-chromatographic-mass spectrometric determination of alachlor and its degradation products by direct aqueous injection. *J. Chromatograph. A* 822:253-261 (1998).
- K. Pratap and A.T. Lemley. Fenton electrochemical treatment of aqueous atrazine and metolachlor. *J. Ag. and Food Chem.* 46 (8): 3285-3291 (1998).
- B. A. Roe and A.T. Lemley. Treatment of two insecticides in an electrochemical Fenton system. *J. Environ. Sci. Health*, B32(2): 261-281(1997).
- K.C. Dowling and A.T. Lemley. Organophosphate insecticide degradation by non-amended and cupric ion-amended Fenton's reagent in aqueous solution. *J. Environ. Sci. Health*, B30(5):585-604 (1995).
- S.M. McClung and A.T. Lemley. Electrochemical treatment and hplc analysis of acid dye solutions. *Textile Chemist and Colorist* 26(8):17-22 (1994).
- K.C. Dowling, R.G. Costella and A.T. Lemley. Behavior of the insecticides ethoprop and carbofuran during soil-water transport. *Pesticide Science* 41:27-33 (1994).
- K. Pratap and A.T. Lemley. Electrochemical/peroxide treatment of aqueous herbicide solutions. *J. Agric. Food Chem.* 42:209-215 (1994).
- K.C. Dowling, R.G. Costella and A.T. Lemley. Modeling the movement of a rapidly-degrading solute, methomyl, in dynamic soil-water systems. In: Pesticides in Groundwater: Occurrence, Behavior, and Regulation, eds. R. C. Honeycutt and D.J. Schabacker, Lewis Publishers, pp. 101-115 (1994).
- A.T. Lemley and L. Wagenet. Developing a rural drinking water database. *J. of Extens.* XXXI:11-13 (1993).
- A.P. Gamerdinger, K.C. Dowling and A.T. Lemley. Miscible displacement and theoretical techniques for simultaneous study of pesticide sorption and degradation during transport. In: Sorption and Degradation of Pesticides and Organic Chemicals in Soil SSSA Special Publication Number 32:115-123 (1993).
- L.W.Lion, B.R. Magee and A.T. Lemley. Retardation of dissolved soil organic matter and its influence on mobility of polycyclic aromatic hydrocarbons (PAH). In: Manipulation of Groundwater Colloids for Environmental Restoration, eds. J.F. McCarthy and F.J Wobber, Lewis Publishers, pp.275-281 (1993).
- K.C. Dowling and A.T. Lemley. Evaluation of organophosphorus insecticide hydrolysis by conventional means and reactive ion exchange. In: Pesticide Waste Management: Technology and Regulation, eds. J. Bourke, A. Felsot, J. Seiber, T. Gilding, J. Jensen, ACS Symposium Series 510:177-194 (1992).
- A.P. Gamerdinger, A.T. Lemley and R.J. Wagenet. Nonequilibrium sorption and degradation of three 2-

chloro-S-triazine herbicide in soil-water systems. *J. Environ. Qual.* 20:815-822 (1991).

B.R. Magee, L.W. Lion and A.T. Lemley. The transport of water-phase organic macromolecules and their effect on the transport of phenanthrene. *Env. Sci. and Tech.* 25:323-331 (1991).

B.R. Magee, A.T. Lemley and L.W. Lion. The effect of water-soluble organic material on the transport of phenanthrene in soil. In: Petroleum Contaminated Soils, eds. E.J. Calabrese and P.T. Calabrese, Vol. 2, Chap. 15:157-176 (1989).

A.T. Lemley, R.J. Wagenet and W.Z. Zhong. Sorption and degradation of aldicarb and its oxidation products in a soil-water flow system as a function of pH and temperature. *J. Environ. Qual.* 17(3):408-414 (1988).

V. Ravichandran, M. Wilde, D.R. Gadoury, A.T. Lemley and S.K. Obendorf. Some observations on the effects of selected dye carriers on poly(ethylene terephthalate). *Textile Chemist and Colorist* 19(11):35-37 (1987).

W.Z. Zhong, A.T. Lemley and R.J. Wagenet. Quantifying pesticide adsorption and degradation during transport through soil to groundwater. In: Pesticides in Groundwater, eds. W.Y. Garner, R.C. Honeycutt, and H.W. Nigg, ACS Symposium Series, 315:61-77 (1986).

A.T. Lemley, J. Fessenden-Raden, C.A. Bisogni and J.M. Holway. Nitrate contamination: public awareness. *J. Amer. Water Works Assoc.* 77(2):34-39 (1985).

A.T. Lemley and W.Z. Zhong. Hydrolysis of aldicarb, aldicarb sulfoxide and aldicarb sulfone at ppb levels in aqueous media. *J. Agric. Food Chem.* 32(4):714-719 (1984).

W.Z. Zhong, A.T. Lemley and J. Spalik. Quantitative determination of ppb levels of carbamate pesticides in water by capillary gas chromatography. *J. Chromatogr.* 299:269-274 (1984).

A.T. Lemley, W.Z. Zhong, G.E. Janauer and R. Rossi. Investigation of degradation rates of carbamate pesticides: exploring a new detoxification method. In: Treatment and Disposal of Pesticide Wastes, ed. R.F. Krueger and J.N. Seiber, ACS Symposium Series 259:245-260 (1984).

A.T. Lemley and W.Z. Zhong. Kinetics of aqueous base and acid hydrolysis of aldicarb, aldicarb sulfoxide and aldicarb sulfone. *J. Environ. Sci. Health* B18(2):189-206 (1983).

J. Spalik, G.E. Janauer, M. Lau and A.T. Lemley. Rapid two-step preconcentration procedure for aldicarb determination in water by high-performance liquid chromatography using a 254 nm detector. *J. Chromatogr.* 253:289-294 (1982).

B. Ehrenberg, A.T. Lemley, A. Lewis, M. von Zastrow and H.L. Crespi. Resonance Raman spectroscopy of chemically modified and isotopically labeled purple membrane. I. A critical examination of the carbon-nitrogen vibrational modes. *Biochem. Biophys. Acta.* 593:441 (1980).

M.A. Marcus, A.T. Lemley and A. Lewis. Implications of modelling the chromophore of rhodopsin and bacteriorhodopsin with resonance Raman spectra of retinal schiff bases. *J. Raman Spectrosc.* 8:22 (1979).

D.F. Bocian, A.T. Lemley, N.O. Petersen, G.W. Brudvig and S.I. Chan. Resonance Raman spectra of cytochrome c oxidase. Excitation in the 600 nm region. *Biochemistry* 18:4396 (1979).

R.E. Cookingham, A. Lewis and A.T. Lemley. A vibrational analysis of rhodopsin and bacteriorhodopsin chromophore analogues: resonance Raman and infrared spectroscopy of chemically modified retinals and Schiff bases. *Biochemistry* 17:4699 (1978).

M. Sulkes, A. Lewis, A.T. Lemley, and R. Cookingham. Modeling the resonance Raman spectrum of a metarhodopsin. *Proc. Nat. Acad. Sci. USA* 73:4266 (1976).

A.T. Lemley and J.J. Lagowski. Liquid ammonia solutions. XII. A Raman study of nitrates and thiocyanates. *J. Phys. Chem.* 78(7):708-713 (1974).

A.T. Lemley, J.H. Roberts, K.R. Plowman and J.J. Lagowski. Liquid ammonia solutions. X. A Raman study of interactions in the liquid state. *J. Phys. Chem.* 77:2185 (1973).

J.H. Roberts, A.T. Lemley and J.J. Lagowski. Raman study of the effect of NaClO₄ and NaI on the hydrogen bonded structure of liquid ammonia. *Spectroscopy Lett.* 5:271 (1972).

A.T. Lemley and R.A. Plane. Raman spectrophotometric study of ion-pairing in aqueous zinc nitrate systems. *J. Chem. Phys.* 57:1648 (1972).

BOOK

“Pesticide Decontamination and Detoxification”, eds., J.J. Gan, P.C. Zhu, S.D. Aust, A.T. Lemley, ACS Symposium Series 863, Washington, DC (2003).

OTHER PUBLICATIONS

A. Lemley. Troubles down the drain. *Waterworks* 7(2):4-5 (1991).

L. Wagenet, A. Lemley, J. Stewart. Disposal of household hazardous waste. In The Earth Care Annual 1990, Emmaus, Pennsylvania, Rodale Press (1990).

A. Lemley. How to dispose of household hazardous wastes. *Health Confidential* 3(12): 6 (1989).

A. Lemley. Ensuring the safety of drinking water. *Human Ecology Forum* 17:3 8-11. 1989.

A. Lemley. For much, much safer drinking water. *Boardroom Reports* 14 (1989).

A.T. Lemley and R.A. Weismiller. Programming for consumers. *Extension Review* 59(3):16 (1988).

A. Lemley and M. Shortlidge. Household hazardous wastes. *New York's Food & Life Science Quarterly* 18: 9-11 (1988).

A.T. Lemley and F. Swader. Groundwater contamination - how to cope. *Extension Review* 56:35 (1985).

A.T. Lemley. Water quality - everyone's problem. In Increasing Understanding of Public Problems and Policies, Farm Foundation pp.166-172 (1985).

C.A. Gomes, V. Ravichandran, and A.T. Lemley. Effect of chemical carriers on the morphology of poly(ethylene terephthalate) films. Annual Book of Papers, AATCC, Montreal, Canada 229-233 (1985).

L. Wagenet, A.T. Lemley, and R.J. Wagenet. A review of physical-chemical parameters related to the soil and groundwater fate of selected pesticides used in New York State. *Search: Agriculture*, New York State Agricultural Experiment Station 30: (1985).

K.S. Porter, A.T. Lemley, H.B. Hughes, R.L. Jones. Developing information on aldicarb levels in Long Island groundwater. Proceedings of the Second International Conference on Groundwater Quality Research. March, 1984.

A.T. Lemley. Groundwater Risk Assessment and Risk Management: Is There a Discrepancy? Proceedings of the Northeast Groundwater Management Conference, Walber's on the Delaware. September 19-21, 1983.

C.F. Wilkinson, J.G. Babish, A.T. Lemley, and D.M. Soderlund. A toxicological evaluation of aldicarb and its metabolites in relation to the potential human health impact of aldicarb residues in Long Island groundwater. Institute for Comparative and Environmental Toxicology, Cornell University, Ithaca, New York, January, 1983.

A.T. Lemley. Women's sports at Cornell: moving towards parity. *Human Ecology Forum* Summer, 1980.

A.T. Lemley. Instructor's Manual for Chemistry: Principles and Applications, 3rd Edition, Sienko and Plane, McGraw-Hill, New York (1979).

A.T. Lemley. Student/Instructor Solution Supplement for Chemistry: Principles and Applications, 3rd Edition, Sienko and Plane, McGraw-Hill, New York (1979).

A.T. Lemley. Hydrogen bonding phenomena. In: The Chemistry of Nonaqueous Solvents, Vol. 4, ed. J.J. Lagowski, Academic Press, New York (1976).

A.T. Lemley, and J.T. Lemley, Instructor's Manual for Chemistry, 5th Edition, Sienko and Plane, McGraw-Hill, New York (1976).

EXTENSION EDUCATIONAL MATERIALS

Fact Sheets/Bulletins

A. Heidekamp and A. Lemley

- Arsenic in Drinking Water. 2006.
- Perchlorate. 2006.
- Chloramine as a Disinfectant. 2005.
- MtBE in Drinking Water. 2005.
- Perchlorate. 2005.
- Hard Water. 2005.
- The Influence of RV chemicals on marina and campground septic tanks. 2005.
- Outdoor Swimming. 2005

- Drinking water on airplanes. 2005.
- Arsenic in drinking water.

K. DiTella and A. Lemley

- Safe Use and Handling of Fuels in and Around the Home. 2001.
- Home Underground Storage Tanks. 2000.
- Water for Emergency Use. 1999.
- Safe Use and Storage of Hazardous Household Products. 1999.

K. DiTella and A. Lemley. Fact Sheets for Limited Resource Audiences. 1999.

- Your Drinking Water
- Products in Your Home
- Your Septic System
- Lead in Your Home

J. Schwartz, A. Lemley, and L. Wagenet

- Iron and Manganese in Household Drinking Water (revision). 1999.

J. Schwartz, A. Lemley, and L. Wagenet

- Hydrogen Sulfide in Household Drinking Water (revision). 1999.

A. Mehta, J.J. Schwartz, and A.T. Lemley

- Bottled Water. 1998.

J. Schwartz and A.T. Lemley

- Reducing Potential Cancer Risks from Drinking Water, Part I: Contaminant Sources and Drinking Water Standards. 1998.

J. Schwartz and A.T. Lemley

- Reducing Potential Cancer Risks from Drinking Water, Part II: Home Water Treatment Options. 1998.

J.J. Schwartz, K. Pratap, and A.T. Lemley

- Household Chemicals and your Septic System. 1997.

B. Kneen and A. Lemley

- Cryptosporidium: A Waterborne Pathogen. 1996.

B. Kneen, L. Wagenet, and A. Lemley

- Activated Carbon Treatment of Drinking Water (Revision). 1996.
- Reverse Osmosis Treatment of Drinking Water (Revision). 1996.

J. Stewart, A.T. Lemley, and R. Weismiller

- Drinking Water Standards and the Health Effects of Drinking Contaminated Water. 1994.

A. Lemley and L. Wagenet

- Household Cleaning Products, What About Substitutes? 1992.

L. Wagenet and A. Lemley, Water Treatment Notes

- Ultraviolet Radiation for Disinfecting Household Drinking Water. 1994.

- Lead in Drinking Water (Revision). 1993.
- Private Household Water Supplies. 1991.
- Terminology for Onsite Sewage Treatment Systems. 1992.
- Guidelines for Purchasing Water Treatment Equipment. 1991.
- Iron and Manganese in Household Water. 1989.
- Hydrogen Sulfide in Household Water. 1989.
- Lead in Drinking Water. 1988.
- Quick Reference for Water Quality Facts. 1987.
- Questions to Ask When Purchasing Water Treatment Equipment. 1987.

J.C. Stewart, A.T. Lemley, S.I. Hogan, and R.A. Weismiller

- Drinking Water Standards. 1987.
- Health Effects of Drinking Water Contaminants. 1987.
- Water Testing and Interpretation: the Secondary Drinking Water Standards. 1987.
- Home Water Testing. 1987.
- Drinking Water: Treatment Guidelines. 1987.

L. Wagenet, A. Lemley, J. Stewart

- Disposal of Household Hazardous Waste. 1989.

A. Lemley.

- PCBs in Submersible Pumps. 1986.

J. Laquatra and A. Lemley, Housing and Home Environment Notes

- Radon, Your House, and You. 1985
- Septic Tank Additives. 1985.

M.E. Purchase and A.T. Lemley

- The Laundry System. 1983.