WILLIAM W. CLARKSON Ph.D., P.E. (ret.)

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Waterford, CT 06385
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EDUCATION:

• **Ph.D.**, Cornell University, June 1986

Major: **Agricultural Engineering** / Waste Management Minors: Microbiology, Environmental Engineering

1986 Engineering-Science/Assoc. of Environmental Engineering Professors Doctoral Thesis Award

• **M.S. Environmental Systems Engineering**, Clemson University, December 1972

• **B.S.E. Civil Engineering**, Duke University, June 1971

PRINCIPAL RESEARCH INTERESTS:

Innovative biological treatment systems, anaerobic microbial processes, anaerobic digester design and modeling, biofilm treatment processes, treatment plant operations, nutrient management, agricultural waste management, land application, bioremediation, biodegradation, biomass conversion, water and waste management in developing countries.

TENURED / TENURE TRACK EMPLOYMENT HISTORY:

• August 2013 – present	Adjunct and Visiting Professor, University of Connecticut
• August 2011 – May 2013	Visiting Professor, U.S. Coast Guard Academy
• August 2011 – present	Professor Emeritus, Oklahoma State University
• January - May 2007	Sabbatical Leave, World Water Watch, Cambridge, MA
• January - August 1995	Sabbatical Leave, Dept. of Botany and Microbiology, University of Oklahoma, Norman
• July 1990 – July 2011	Associate Professor of Environmental Engineering, Oklahoma State University
• Aug. 1987 - June 1990	Assistant Professor of Environmental Engineering, Oklahoma State University
• Dec. 1984 - June 1987	Assistant Professor of Environmental Engineering, Clarkson University, Potsdam, NY

Previous Employment:

• Feb. 1977 – Dec. 1984:	Research Associate, Instructor, and Graduate Research Assistant, Department of Agricultural Engineering, Cornell University
• Nov. 1974 – Dec. 1976:	U.S. Peace Corps: Water Supply Design Engineer, Public Works Department, Apia, Western Samoa
• Jan. 1973 – Oct. 1974:	Staff Engineer, Wiggins-Rimer & Assoc.; Consultant to Peter B. Crist Assoc. and W.H. Gardner Assoc. consulting engineers, Durham, North Carolina

PROFESSIONAL ACTIVITIES:

Registered Professional Engineer (Retired), Oklahoma (No. 18129) / Wastewater Treatment Plant Operator, North Carolina (Grade II Certificate No. 1176) / ISO 14000 Certification / Member, American Society of Civil Engineers (EWRI)

Engineers Without Borders (EWB), member Oklahoma East and New London Professional Chapters

Consultant to Sequoyah Fuels; Battelle Corp. (Tinker Air Force Base); City of Fort Gibson, OK; Atkins America (now Benham Cos. Environmental); Bion Environmental Technologies; DeShazo Group, Inc.

Manuscript Reviewer: J. Environmental Engineering, Water Environment Research, Environmental Science and Technology, Water Research, Biomass and Bioenergy, Environmental Software, Environmental Engineering Science, Chemosphere, Environmental Technology, Bioremediation Journal, Soil and Sediment Contamination: an Intl .J.

Proposal Reviewer: USEPA Exploratory Research Grants in Environmental Engineering (1995), USGS Section 104 Western Regional Competitive Grants Program (1996), EPA STAR/GRO Fellowships (1997, 2002, 2004, 2005), Wentz Projects (OSU Undergraduate Research Grants) (1999, 2000), Wentz Scholarships (2006), NSF Environmental Engineering (unsolicited) (2006), USDA CSREES SBIR Program (2009, 2010)

FUNDED RESEARCH:

Treating Swine Waste Using Laboratory Scale Anaerobic Sequencing Batch Reactors, OSU Environ. Institute, Water Research Center. 1 July 2002 to 30 June 2004: $36,980 (Co-P.I.)

Mechanisms and Control of Carbon Monoxide Generation in an Industrial Wastewater Treatment Plant, Stover Group, 1 May 2001 to 31 May 2002: $20,000 (Co-P.I.)

Bioslurry Remediation of Soils Contaminated with Nitroaromatics: Microorganisms Involved and Surfactants Enhancement, OSU Environmental Institute, Water Research Center. 1 July 2000 to 30 June 2001: $50,000 (Co-Principal Investigator)

Engineering Research Equipment: Trace Organic Analytical System for the Environmental and Hazardous Materials (EHM) Laboratory, U.S. National Science Foundation Equipment Grant Program. 1 April 1997 to 31 March 1998: $140,000 (Co-Principal Investigator)

Automation and Characterization of an Environmental Research Field Site, subcontract to University of Oklahoma, from National Science Foundation. 1 July 1995 to 30 June 1998: $77,170 (P.I.)

Reducing Waste from Abattoirs: Ruminal Contents, Oklahoma Agricultural Experiment Station, Food Research Initiative Program. 1 April 1997 to 31 December 1997: $37,850 (Co-P.I.)

Microbial Metabolism of Munitions Wastes in Anoxic Aquifers, subcontract to University of Oklahoma, from U.S. EPA Robert S. Kerr Environmental Research Lab through National Center for Ground Water Research. I July 1994 to 9 November 1997: $181,645 (P.I.)

Biological Treatability of RDX-Contaminated Soil at the Pantex Facility, Tulsa District, U.S. Army Corps of Engineers. 1 December to 30 June 1996: $11,500 (Principal Investigator)

Anaerobic Bioconversion of Cellulosic Materials, Oklahoma Alliance for Public Policy Research, U.S. EPA Center for Resource Conservation and Environmental Research. 1 August 1993 to 31 July 1994: $37,500 (P.I.)

Composting of Petroleum Hydrocarbon Wastes (Research Fellowships), Amoco Research Corp., Tulsa, OK. 1 July 1992 to 30 June 1994: $30,000 (Principal Investigator)

Bioremediation of Soils Containing Hydrocarbons, Transok Inc., Tulsa, OK. 1 August to 1 Dec. 1992: $12,437 (Principal Investigator)

Development of Biological Processes for the Removal of Selected Nitroaromatics in Contaminated Groundwater and TNT Munition Plant Wastewater, OSU Center for Water Research. 1 July 1991 to 30 June 1992: $16,000 (Principal Investigator)

Short-Term Respirometric Estimates of Biochemical Oxygen Demand, Oklahoma Center for the Advancement of Science and Technology (OCAST) and Duncan Instruments, Inc. 1 January 1991 to 31 December 1993: $149,931 (Co-Principal Investigator)

Evaluation of Biological Nitrification/Denitrification for Treatment of Fertilizer Production Wastewaters, Agricultural Minerals Corp., Catoosa, OK. 1 September 1990 to 29 February 1992: $45,982 (Principal Investigator)

Denitrification of High Strength Industrial Wastewaters, OSU Center for Water Research. 1 August 1988 to 30 June 1990: $41,250 (Principal Investigator)

Establishment and Characterization of Biofilms Composed of Inducible and Constitutive Monocultures Capable of 2,4-D Degradation, Oklahoma WRRI (USGS Section 104 matching grant). 1 July 1988 to 30 June 1990: $107,818 (Co-Principal Investigator)

Feasibility of Rotating Biological Contactor Treatment of Concentrated Ammonia Wastewater, IBM Corporation, Essex Junction, VT. 1 June 1985 to 15 Sept. 1986: $81,194 (Co-P.I.)

Anaerobic Waste Studies, Clarkson University. AY 1985, 1986: $11,700 (Principal Investigator)

COURSES TAUGHT AT UNIVERSITY OF CONNECTICUT:

ENVE 3120 Fluid Mechanics

ENVE 4820 Hydraulic Engineering

ENVE 5252 Contaminant Source Remediation

COURSES TAUGHT AT U.S. COAST GUARD ACADEMY:

1116 Statics and Engineering Design

1309 Environmental Engineering I (Lecture and Laboratory)

1402 Civil Engineering Design Lab (Senior Capstone Design Project)

COURSES TAUGHT AT OKLAHOMA STATE UNIVERSITY:

ENGINEERING SCIENCE

ENSC 3233 Fluid Mechanics

CIVIL AND ENVIRONMENTAL ENGINEERING / UNDERGRADUATE

CIVE 3813 Environmental Engineering Science

CIVE 3833 Applied Hydraulics

CIVE 3853 Environmental Engineering Laboratory

CIVE 4010 Civil Engineering Research

CIVE 4143 Environmental Engineering Design

CIVE 4823 Human Impact on the Environment

CIVE 4833 Environmental Engineering Unit Operations and Processes

CIVIL AND ENVIRONMENTAL ENGINEERING / GRADUATE

CIVE 5010 Land Treatment Systems for Waste Utilization (developed new course)

CIVE 5803 Essentials of Environmental Engineering (developed new course)

CIVE 5813 Environmental Laboratory Analysis

CIVE 5853 Bioremediation (developed new course)

CIVE 5883 Residuals and Solid Waste Engineering

CIVE 5943 Unit Operations and Processes Laboratory (co-developed new course)

CIVE 5953 Biological Waste Treatment

CIVE 6953 Advanced Biological Waste Treatment

PUBLICATIONS:

Textbooks:

Sanin, F.D., **W.W. Clarkson** and, P.A. Vesilind. 2011. ***Sludge Engineering: The Treatment and Disposal of Wastewater Sludges***, 3rd Ed. DesTech Publishers, Lancaster, PA, 393 pp

Loehr, R.C., W.J. Jewell, J.D. Novak, **W.W. Clarkson**, and G.S. Friedman, 1979. ***Land Application of Wastes***. Environmental Engineering Series, Van Nostrand Reinhold Co., New York. Vol I, 308 pp; Vol II, 431 pp

Refereed Journals and Proceedings:

Clarkson, W.W., P.D. Robillard, and R.W. Harjo, 2010. Choosing sustainable wastewater treatment technologies to enhance integrated watershed management in developing countries. **EWRI World Environment and Water Resources Congress 2010**, American Society of Civil Engineers, Providence, RI, 16 May. ***ASCE Conf. Proc***. 371, 411 (2010), DOI:10.1061/41114(371)411

Velmurugan, S., **W.W. Clarkson**, and J.N. Veenstra, 2010. Model-based design of sequencing batch reactor for removal of biodegradable organics and nitrogen. ***Water Environment Research***, 82 (5): 462-474

Williams, D.J., W.T. Potter, **W.W. Clarkson**, D.A. Sanders, and J.E. Stevens, 2009. The impact of background ozone on compliance with revised national ambient air quality standards. ***J. Air and Waste Management Association***, 59 (1): 52-57

Meyers, S.K., S. Deng, N.T. Basta, **W.W. Clarkson**, and G.G. Wilber, 2007. Long-term explosive contamination in soil: effects on soil microbial community and bioremediation. ***Soil and Sediment Contamination: an International Journal***, 16 (1): 61-77

Hamilton, D.W., B. Fathepure, C.D. Fulhage, **W.W. Clarkson**, J.A. Lalman, 2006. Treatment lagoons for animal agriculture. ***Animal Agriculture and the Environment: National Center for Manure and Animal Waste Management White Papers***, J.M. Rice, D.F. Caldwell, and F. Humenik, eds., pp. 547-574. American Society of Agricultural and Biological Engineers (ASABE), St. Joseph, MI

Clarkson, W.W. and W. Xiao, 2000. Bench-scale anaerobic bioconversion of newsprint and office paper. ***Water Science and Technology***, 41 (3): 93-100

Clarkson, W.W., G.G. Wilber, W. C. Light, and R.D. Hort, 1999. Biodegradation of explosives from contaminated soil. ***Proceedings National Conf. on Environmental Remediation Science and Technology***, pp 27-38. Batelle Press

Wilber, G.G., J. Li, and **W.W. Clarkson**, 1999. Factors affecting the biotransformation of TNT. ***Environmental Engineering 1999, Proc. ASCE-CSCE National Conference on Environmental Engineering***, pp 897-905. Norfolk, VA, July 1999

Clarkson, W.W. and W. Xiao, 1999. Anaerobic bioconversion of waste paper. ***Proc. II Intl. Symp. on Anaerobic Digestion of Solid Waste (II-ISAD-SW), Vol. I***, J. Mata-Alvarez, A. Tilche, and F. Cecchi, eds., pp. 75-82. IAWQ Specialty Conf., Barcelona, June 1999

Light, W.C., G.G. Wilber, and **W.W. Clarkson**, 1998. Biological treatability of RDX-contaminated soil. ***Proc. 52nd Purdue Industrial Waste Conference***, pp 135-148. Ann Arbor Press, Chelsea, MI

Xiao, W. and **W.W. Clarkson**, 1997. Acid solubilization of lignin and bioconversion of treated newsprint to methane. ***Biodegradation***, 8:61-66

Krumholz, L.R., J. Li, **W.W. Clarkson**, G.G. Wilber, and J.M. Suflita, 1997. Transformations of TNT and related aminotoluenes in groundwater aquifer slurries under different electron accepting conditions. ***J. Industrial Microbiology & Biotechnology***, 18: 161-169

M.S.H. Bader and **W.W. Clarkson**, 1995. An overview of the oil lakes in Kuwait: The problem and remedial methods. ***J. Environmental Science and Health, Part A***, 30 (5): 1039-1057

Clarkson, W.W., C.-P. Yang, and A.R. Harker, 1993. 2,4-D degradation in monoculture biofilm reactors. ***Water Research***, 27 (8): 1275-1284

Krishnamachari, S. and **W.W. Clarkson**, 1993. Nitrite accumulation in the effluents from highstrength denitrification of industrial wastewaters. ***Proc. 47th Purdue Industrial Waste Conf.***, pp 383-392. Lewis Publishers, Chelsea, MI

Krishnamachari, S. and **W.W. Clarkson**, 1992. Effluent nitrite accumulation in the heterotrophic denitrification of high-strength industrial wastewaters. ***Environmental Engineering: Proc. of the Environmental Engineering Sessions at Water Forum '92***, L. Pierce Linaweaver (ed.), pp. 370-375. Environmental Engineering Division, American Society of Civil Engineers

Collins, A.G., **W.W. Clarkson**, and S.A. Florio, 1991. Alternative fixed-film biological nitrification processes for a semiconductor waste. ***Research J. Water Pollution Control Federation***, 63 (1): 60-66

Clarkson, W.W., B.J.B. Ross, and S. Krishnamachari, 1991. Denitrification of high-strength industrial wastewaters. ***Proceedings 45th Purdue Industrial Waste Conference***, pp. 347-357. Lewis Publishers, Chelsea, MI

Hertzler, S.K., A.R. Harker, and **W.W. Clarkson**, 1990. A comparison of a short-term BOD assay to the standard BOD_5. ***Environmental Engineering: Proceedings of the 1990 Specialty Conference***, pp. 893-894. Environmental Engineering Division, American Society of Civil Engineers

Clarkson, W.W., A.G. Collins, and P.L. Sheehan, 1989. Effect of fluoride on nitrification of a concentrated industrial waste. ***Applied and Environmental Microbiology***, 55 (1): 240-245

Collins, A.G., **W.W. Clarkson**, and M. Vrona, 1988. Fixed film biological nitrification of a strong industrial waste. ***J. Water Pollution Control Federation***, 60 (4): 499-504

Clarkson, W.W., J.W. Morris, and W.J. Jewell, 1988. Anaerobic digestion of insoluble cellulose in expanded bed biofilm reactors. ***Proceedings of the Food Processing Waste Conference***, Session 12, Anaerobic; Paper 3. Georgia Tech Research Institute, Atlanta

Collins, A.G., **W.W. Clarkson**, and S.A. Florio. 1988. Nitrification of a strong industrial waste using aerobic expanded bed reactors. ***Proc. Industrial Wastes Symposia***, Session 15, Biological Treatment of Industrial Wastes, Paper 2: 1-16, 61st Ann. Conf, Wat. Poll. Contr. Fed., Dallas

Clarkson, W.W., S.A. Florio, A.G. Collins, and T.A. Tamayo, 1987. Aerobic expanded beds: new technology for nitrification of industrial wastes. ***Toxic and Hazardous Wastes: Proc. 19th MidAtlantic Industrial Waste Conference***, pp. 1-12, Technomic Publishing Co., Lancaster, PA

Collins, A.G., M. Vrona, **W.W. Clarkson**, and J.M. Dietrich. 1987. Nitrification at high concentrations of ammonia and fluoride using rotating biological contactors. ***Toxic and Hazardous Wastes: Proceedings 19th Mid-Atlantic Industrial Waste Conference***, pp. 577-588, Technomic Publishing Co., Lancaster, PA

Morris, J.W. and **W.W. Clarkson**. 1980. Agricultural wastes. ***J. Water Pollution Control Federation Ann. Lit. Review*** 52 (6): 1342-138

Other Publications:

Zelmanowitz, S., **W.W. Clarkson**, K. Schumacher, and A. Monteforte. 2015. Results of two bench-scale membrane bioreactor experiments used to treat shipboard gray water. 2015 Membrane Technology Conference, American Membrane Technology Association and American Water Works Association, Orlando, FL. Session W-4E.

Velmurugan, S., **W.W. Clarkson**, and J.N. Veenstra, 2011. Optimal operational strategies for energy savings at a 5 MGD full scale sequencing batch reactor wastewater treatment plant. Energy and Water 2011, Water Environment Federation, Chicago. Session 9, Paper 09E, 2 August.

Hamilton, D.W., B. Fathepure, **W.W. Clarkson**, C.D. Fulhage, and J.A. Lalman. 2002. Treatment lagoons for animal agriculture. USDA National Center for Manure and Animal Waste Management White Paper (http://www.cals.ncsu.edu:8050/waste_mgt/natlcenter/activities/htm). CD: Midwest Plan Service, Ames, IA

Janloo, S.M., H.G. Dolezal, C. Strasia, **W. W. Clarkson**, F.N. Owens, and A. LaManna. 1998. Impact of withholding feed on weight and composition of ruminal contents. Oklahoma Agricultural Experiment Station Animal Science Research Report P-965, pp 114-120

Clarkson, W.W., L.R. Krumholz, and J.M. Suflita. 1996. Anaerobic quantitation of Yucca Mountain, Nevada DOE site samples. Proc. 7th Annual International High-Level Radioactive Waste Management Conference, Las Vegas, NV

Clarkson, W.W., K. Raterman, G. Barker, K. Kriegh, D. Denham, and D. Lautzenhiser. 1995. Assessment of composting for bioremediation of pit sludges and weathered crude oil. Environmental Issues and Solutions in Petroleum Exploration, Production and Refining: Proc. Second International Petroleum Environmental Conf. (K.L. Sublette, ed.), pp 435-454. Univ. of Tulsa and PennWell Books

Clarkson, W.W. 1994. Anaerobic digestion of animal wastes: Principles and recent developments. Proceedings of the Korean Federation of Science and Technology Societies, pp 457-478. Autumn Workshop, Seoul [Invited Presentation]

Brooks, S., E.L. Stover, and **W.W. Clarkson**. 1994. Anaerobic treatability/toxicity screening study procedure. Proc. Food Processing Waste Conf., Georgia Tech Research Institute, Atlanta

Potts, P.A. and **W.W. Clarkson**. 1994. Composting for bioremediation of oil-contaminated soil. Environmental Issues and Solutions in Petroleum Exploration, Production and Refining: Proc. International Petroleum Environ. Conf. (K.L. Sublette, T.M. Harris, and F. S. Manning, eds.), pp 587-602. University of Tulsa and PennWell Books

Clarkson, W.W. 1990. Biological wastewater treatment systems for the food processing industry: principles and recent developments. Waste Management and Water Conservation in the Food Process Industry: Proceedings Food Process Waste Management and Water Conservation Conference, pp. 35-49. Pennsylvania Food Industry Council, Pennsylvania Power & Light Co., Lehigh and Pennsylvania State Universities (Invited Presentation]

GRADUATE STUDENTS DIRECTED:

3 Ph.D., 19 M.S. (Thesis), 34 M.S. (Non-Thesis) Completed

Ph.D. Dissertations:

Michael D. Fletcher, Small-Scale Subsurface Flow Constructed Wetlands for Intermediate Treatment in Septic Systems, 2008

Weiping Xiao, Anaerobic Bioconversion of Waste Paper and Newsprint, 1996

Gee-Bong Han, Biodegradation of Nitroaromatic Compounds in TNT Munitions Wastes Under Different Metabolic Regimes, 1993

M.S. Theses:

Steven P. Schaal, Water Quality Enhancement Assessment of an Existing Flood Control Detention Facility in the City of Tulsa, Oklahoma, 2006

Winford R. Sterling, Computer Simulation of Swine Waste Digestion within an Anaerobic Sequencing Batch Reactor, 2005

David J. Williams, Short Term Kinetic Study of the Anaerobic Microbiological Properties of Diluted Swine Slurry, 2004

Jeana W. Davis, Contribution of *Anabaena circinalis* to Geosmin Levels in Lake Spavinaw and Lake Eucha, 2004

Ryan D. Hort, The Effect of Electron Acceptors on RDX Biodegradation and Metabolite Formation, 1999

W. Craig Light, Biological Treatability of Hexahydro-1,3,5-Trinitro-1,3,5-Triazine (RDX)Contaminated Soil, 1997

Donna G. Lautzenhiser, Suitability of Bench Scale Composting as an Indicator of Full Scale Bioremediation of Oily Sludges, 1995

Saurabh R. Shah, Anaerobic Degradation Intermediates of 2,4,6-Trinitrotoluene (TNT) under Different Electron Accepting Conditions, 1995

Daniel S. Denham, Pilot Composting for Bioremediation of a Weathered Crude Oil, 1994

J. Seth Brooks, Development of Test Methodology for Anaerobic Screening Study by Batch Assay, 1994

Paul A. Potts, The Effectiveness of Treating Oil Contaminated Soils Through Compost Process, 1993

Karl R. Kriegh, Optimization of Oily Sludge Composting Parameters Through Respirometry, 1993

Wei-ping Xiao, Coupling Nitrification and Denitrification in Mixed Attached Film Aerated Expanded Bed System, 1992

Fei-Yun Zeng, Effect of Nitrate on Nitrification of Concentrated Nitrogenous Wastewaters in Rotating Biological Contactor and Aerobic Expanded Bed Reactors, 1992

Xiangze Su, Ammonia Effects on High-Strength Autotrophic Denitrification of Simulated Industrial Wastewater, 1991

Ching-Ping Yang, Degradation of 2,4-Dichlorophenoxyacetic Acid in Expanded Bed Reactors by *Alcaligenes eutrophus* AE0106 with Plasmids pRO101 and pRO103 , 1990

Srikanth Krishnamachari, Heterotrophic Denitrification of Simulated High-Strength Industrial Wastewater, 1990

Ben J. B. Ross, High-rate Autotrophic Denitrification of Simulated Industrial Wastewater, 1989

Pamela L. Sheehan, Nitrification at High Concentrations of Ammonia and Fluoride, 1987

M.S. non-thesis (Reports, Creative Components, Internship Reports):

Robert L. Davis, Radionuclides in the Roubidoux Formation of Northeastern Oklahoma – Effects on Residuals Management and Operator Safety During Domestic Water Treatment, 2011

Kendall C. McPeters, Pre-treatment of Wastewater from a Glass Manufacturing Plant, 2011

Deirdre Shepherd, Bioreactor Landfills, 2011

Manuel Barrett, The Use of Humic Substances in Remediation, 2011

Eric Hixson, Evaluating the IWA Anaerobic Digestion Model No. 1 Using Global Sensitivity Analysis Methods, 2007

Olusola A. Ayilara, Remediation of DNAPL in Fractured Rocks, 2006

Randall Baker, Disposal / Reuse Options for Water Treatment Residues, 2006

Jan Marie First, Use of Ultrafiltration for Treatment of Surface Water and Ground Water under the Influence of Surface Water, 2006

Colleen G. Bennett, Antimicrobial Activity of *Basicladia* Algae Found on Freshwater Turtle Carapaces, 2005

L. Terry Newton, Possible Options Other Than Using Chlorophyll-A for Determination of Trophic State in Oklahoma Lakes, 2005

Olivia Engle, The Impacts of Spill Reporting Regulations on Oil and Gas Exploration and Production Facilities, 2003

Amelia London, Internship for Environmental Science Graduate Program OSU with WilTel Communications LLC, 2003

Jesse Garcia, Environmental Impacts and Issues of Coalbed Methane Production on the Southern Ute Indian Reservation in the San Juan Basin, with GIS Applications, 2002

Brent R. Hauser, Wastewater Master Plan City of Suez, Egypt, 2000

Scott Dixon. In Situ Soil Vapor Extraction Techniques with and without the Utilization of Air Sparging on Hydrocarbon Releases from Underground Storage Tanks, 1998

Mark A. Young. Review of Anaerobic Digestion Opportunities for the Treatment of Waste Streams from Animal Feeding Operations, 1998

R. Kerry Lane. Processing High-Solids Wastes from Confined Animal Feed Operations Using a Combination of Anaerobic Digestion and Composting, 1998

Brett A. Perona, Remediation of TPH Contaminated Site via Variations of Advanced Landfarming Treatment, 1997

Robert D. Shelton, Potable Water Augmentation and Reuse, 1996

J. Timothy Hartsfield, M.S. Creative Component, 1995

Yolane Hartsfield, Selenium Reduction and Removal from Brackish Waters Using Biological Processes: A Review, 1995

Beata E. Barna, The Discipline of Environmental Compliance Auditing, 1995

Rex Ostrander, Bioremediation of TNT Contaminated Soils at the Former Pantex Ordnance Plant, 1994

Patrick P. Steffanelli, Physical Processes for the Removal of Cellulose from Mixed Paper/Plastic Materials, 1994

M. Cliff Murray, Review of Recent Literature on Pretreatment of Paper for Cellulose Hydrolysis and Anaerobic Bioconversion, 1993

Brian Topping, Application of Microtox Acute Toxicity Bioassay to Industry Wastewater Treatment and Bioremediation Processes, 1993

Tom D. Knudson, Portable Bioreactor Design for Treatment of Gasoline and Diesel Contaminated Groundwater, 1993

Kathy A. Allison, An Evaluation of the Initial Stages of a Nitrification /Denitrification Pilot Plant Startup for the Treatment of an Industrial Wastewater, 1992

Joe H. Bruton, A Practical Field Guide for the Bioremediation of BTEX Contaminated Soils with a Conceptual Design Example, 1992

Alan Khatib, Treatment and Disposal of Drilling Wastes, 1992

Quentin Mendenhall, Activated Carbon Adsorption Treatment of Benzene Contaminated Tank Bottom Water, 1991

Eddie D. Gruben, Haikey Creek Wastewater Treatment Plant: Rule Making to Optimize Plant Efficiency, 1991

Anne M. Sheffert, Rational Methodology for Design and Evaluation of Systems for Land Treatment of Municipal Wastewater on a Regional Basis in Oklahoma, 1991

H. D. Poesponegoro, Aquatic Plant System for Jakarta Wastewater Treatment, 1990