

CURRICULUM VITAE

John H. Rodgers, Jr.

PRESENT POSITION: Emeritus Professor
School of Agricultural, Forest and Environmental Sciences
Clemson University

Director, Ecotoxicology Program
Co-Director, Energy and Environment Program
Department of Forestry and Environmental Conservation
Clemson University

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EDUCATION: Virginia Polytechnic Institute and State
University, Blacksburg, VA,

Ph.D. Degree, Botany, Aquatic Ecology, 1977.

Clemson University, Clemson, SC,
M.S. Degree, Botany, Plant Ecology, 1974.

Clemson University, Clemson, SC,
B.S. Degree, Botany, 1972.

PROFESSIONAL
EXPERIENCE:

Clemson University (1998-present):

Professor, Department of Forestry and Environmental
Conservation
Director, Ecotoxicology Program
2003 – Present.

Director, Clemson Institute of Environmental Toxicology
Chair, Department of Environmental Toxicology
Professor, Department of Environmental Toxicology
Co - Director, Clemson Environmental Institute
1998 - 2003.

University of Mississippi:
(Department of Biology)

Professor, Department of Biology,
1989 - 1998.

Director, Ecotoxicology Program,
1995 – 1998.

Adjunct Research Professor, Research Institute for
Pharmaceutical Sciences,
1989 - 1998.

Director, Biological Field Station,
1990 – 1995.

Director, Center for Water and Wetland Resources,
1993 – 1995.

Associate Director, Biological Field Station,
1989 - 1990.

University of North Texas:
(Division of Environmental Sciences,
Department of Biological Sciences)

Director, Water Research Field Station,

1987 - 1989.

Associate Professor, Department of Biological Sciences,
1985 - 1989.

Associate Director, Institute of Applied Sciences,
1982 - 1988.

Assistant Professor, Department of Biological Sciences,
1982 - 1985.

Research Scientist II, Institute of Applied Sciences,
1979 - 1981.

East Tennessee State University:

(Department of Environmental Sciences,
Aquatic Ecology Section)

Assistant Professor, 1978 - 1979.

**Virginia Polytechnic Institute
and State University:**

(Biology Department, Center for
Environmental Studies)

Postdoctoral Research Associate, 1977 - 1978.

Research Assistant- Energy Research and
Development Administration, 1975 - 1977.

Clemson University (1972-1974):

(Botany Department)

Research Assistant - Water Resources Research
Institute, 1972 - 1974.

Laboratory Teaching Assistant – Plant Physiology,
Plant Ecology, Biological Oceanology, Botany, 1972 - 1974.

**MILITARY
SERVICE:**

Distinguished Military Graduate, Clemson University, 1972.

U.S. Air Force Reserve, Second Lieutenant,
1972 - 1975.

U.S. Air Force Reserve, First Lieutenant,
1975 - 1978.

U.S. Air Force Reserve, Captain,
1978 - 1984.

U.S. Air Force (Active Duty),
June 1 - August 29, 1976.
U.S. Air Force, Honorable Discharge, 1984.
Pilot Certificate - 34 hours, Single engine aircraft.

RESEARCH
SUPPORT:

Clemson University (1972-1974):

Research Assistantship, Water Resources Institute, Project No. B-053-SC (\$42,000), 1972 - 1974. Impact of Thermal Effluent from a Nuclear Power Plant on Reservoir Productivity.

Thesis Parts Award, USAEC, The E.I. DuPont de Nemours & Co., Savannah River Laboratory (Thermal Effects Laboratory), Aiken, S.C., 1973-1975. Effects of Elevated Temperatures on Periphyton Productivity in Lotic Aquatic Ecosystems.

Savannah River Laboratory, Research Assistantship, Research Contract USAEC Funding (\$50,000), 1973-1975. Impacts of Ash from Coal Combustion on Swamp Receiving Systems.

Virginia Polytechnic Institute and State University:

Research Assistantship, Research Contract, American Electric Power Corporation Funding (\$93,000), 1974-1975. Thermal Tolerances and Electivities of Fish Adjacent to a Coal-Fired Power Plant.

Research Assistantship, Research Contract, Energy Research and Development Administration Funding (\$112,000), 1975 - 1976. Structural and Functional Responses of Aquatic Communities to Power Generation.

Research Assistantship, Research Contract, Energy Research and Development Administration Funding (\$132,000), 1976 - 1977. Responses of Aquatic Communities to Perturbations Associated with Power Generation.

Co-principal Investigator, Research Contract, Water Resources Research Institute Funding (\$68,000), 1977 - 1979. Environmental Tolerances of *Corbicula fluminea* from the New River, Virginia.

East Tennessee State University:

Principal Investigator, Research Contract, ETSU Research Development Committee Funding

(\$3,270), 1978 - 1979. Primary Production and Nutrient Dynamics in the Watauga River, Tennessee.

Oak Ridge Associated Universities Travel Contract, 1978 - 1979. Impacts of Power Production on Aquatic Ecosystems of Savannah River Laboratory.

University of North Texas:

Co-Principal Investigator, Research Contract, Chemical Manufacturers' Association Funding (\$80,000), 1979 - 1980. Modeling the Fate of Chemicals in Aquatic Environments.

Principal Investigator, Research Contract, NTSU Faculty Research Grant Funding (\$4,000), 1979 - 1980. Biotransformation of Xenobiotics in Aquatic Systems.

Co-principal Investigator, Research Contract, International Paper Company Funding (\$149,530), 1980 - 1981. Impacts of Paper Mill Effluent on Aquatic Ecosystems.

Co-principal Investigator, Research Contract, Victor Equipment Company Funding (\$5,000), 1980. Optimization of Packaged Waste Treatment System for Metal Removal.

Co-principal Investigator, Research Contract, International Paper Company Funding (\$171,830), 1980 - 1981. Investigation of Pre- and Post-Operational Effects of a Paper Mill on Aquatic Systems.

Principal Investigator, Research Contract, NTSU Faculty Research Grant Funding (\$4,620), 1980 - 1981. Predicting Bioconcentration of Chemicals by Aquatic Organisms.

Co-principal Investigator, Research Contract, Chemical Manufacturers' Association Funding (\$30,000), 1981. Validation of Chemical Fate Models for Aquatic Ecosystems.

Co-principal Investigator, Research Contract, U.S. Environmental Protection Agency Funding (\$305,866), 1981 - 1983. Development of a Decision Support System for Integrated Management of Nuisance Aquatic Vegetation.

Principal Investigator, Research Contract, NTSU Faculty Research Grant Funding (\$3,600), 1981-1982. Fate and Effects of the Herbicide, Endothall, in Aquatic Systems.

Co-principal Investigator, Research Contract, Chemical Manufacturers' Association Funding (\$59,985), 1981 - 1982. Studies of Fate and Effects of Chemicals in Aquatic Ecosystems.

Co-principal Investigator, Research Contract, International Paper Company Funding (\$113,000), 1982. Effects of Paper Mill Effluent on Aquatic Ecosystems.

Principal Investigator, Research Contract, U.S. Army Corps of Engineers Funding (\$24,500), 1982. Ecosystem Study of Pat Mayse Lake, A Southwestern Reservoir.

Co-principal Investigator, Research Contract, International Paper Company Funding (\$348,926), 1982 - 1985. Further Studies of Effects of Paper Mill Effluent on Aquatic Ecosystems.

Principal Investigator, Research Contract, NTSU Faculty Research Grant Funding (\$3,500), 1982 - 1983. Proximate Oxygen Demand of Aquatic Plants.

Co-principal Investigator, Research Contract, U.S. Environmental Protection Agency Funding (\$199,500), 1982 - 1983. Validation of Decision Support Systems for Integrated Management of Nuisance Aquatic Vegetation.

Co-principal Investigator, Research Contract, American Petroleum Institute (\$83,809), 1981 - 1982. Bioavailability of Petroleum-Derived Chemicals in Aquatic Ecosystems.

Principal Investigator, Research Contract, U.S. Army Corps of Engineers Funding (\$25,000), 1983. Further Studies: Pat Mayse Lake, A Southwestern Reservoir.

Principal Investigator, Research Contract, U.S. Army Corps of Engineers Funding (\$1,000), 1983. Remote Sensing of Aquatic Vegetation in Pat Mayse Lake.

Co-principal Investigator, Research Contract, Shell Development Company Funding (\$17,000), 1983. Impact of Petroleum Compounds on Aquatic Organisms.

Principal Investigator, Research Contract, NTSU Faculty Research Grant Funding (\$4,500), 1983 - 1984. Threshold Responses of Aquatic Vegetation to Herbicides.

Co-principal Investigator, Research Contract, Shell Development Company Funding (\$29,758), 1984. Inter-Laboratory Comparison of Bioassays Using Freshwater and Marine Organisms.

Principal Investigator, Research Contract, U.S. Army Corps of Engineers Funding (\$20,000), 1984. Water Quality Monitoring and Aquatic Vegetation in Pat Mayse Lake.

Principal Investigator, Research Contract, Pennwalt Corporation Funding (\$11,500), 1984. Comparative Study of Two Aquatic Herbicides.

Principal Investigator, Research Contract, Shell Oil and Chemical Company Funding (\$14,000). Aquatic Toxicology Studies for the Petrochemical Industry.

Principal Investigator, Research Contract, Dallas County Utility and Reclamation District Funding (\$12,000), 1984 - 1985. Eutrophication Potential in an Impoundment Receiving

Wastewater.

Co-principal Investigator, Research Contract, Shell Development Company Funding (\$31,797), 1985. Development of Data on Proper Selection of Bioassay Species.

Co-principal Investigator, Research Contract, Texas Instruments, Inc. Funding (approximately \$12,000, equipment), 1985. Development of Expert Systems for Water Quality Management.

Principal Investigator, Research Contract, U.S. Army Corps of Engineers Funding (\$24,500), 1985. Development of a Water Quality Model and Lake Management Strategy for Pat Mayse Lake.

Co-principal Investigator, Research Foundation Award, Shell Research Foundation (\$15,000), 1985. The Response of Marine and Freshwater Species to Xenobiotics.

Principal Investigator, Research Contract, NTSU Faculty Research Grant Funding (\$2,700), 1986 - 1987. Experimental Analysis of Bioassay Methods.

Co-principal Investigator, Research Contract, U.S. Army Corps of Engineers Funding (\$168,693), 1986 - 1987. Ecological Analysis of the Lake Ray Roberts Project Site.

Principal Investigator, Research Contract, U.S. Army Corps of Engineers Funding, (\$68,000), 1986 - 1987. Coupling an Environmental Fate and Effects Model for 2, 4-D and Water Hyacinth.

Co-principal Investigator, Research Contract, Shell Research Foundation Funding (\$15,000), 1986. Osmoregulation in Marine Bioassay Species.

Principal Investigator, Research Contract, American Petroleum Institute Funding (\$8,000), 1986. Evaluation of Marine Bioassay Species.

Principal Investigator, Research Contract, American Petroleum Institute and U.S. Environmental Protection Agency Funding (\$10,000), 1986. A Workshop on Culture and Life History of *Mysidopsis* sp.

Co-principal Investigator, Research Contract, Shell Research Foundation Funding (\$20,000), 1987. Sediment Organic Carbon Content in Aquatic Systems of the U.S.

Principal Investigator, Research Contract, U.S. Army Corps of Engineers Funding (\$24,500), 1987 - 1988. Endothall Fate and Effects on *Myriophyllum spicatum* in Pat Mayse Lake, Texas.

Co-principal Investigator, Research Contract Hoechst-Roussel Agri-Vet (Hoechst-Celanese) Co. Funding (\$185,000), 1987 - 1988. Development of Mesocosms and Water Research Field Station.

Co-principal Investigator, Research Contract, City of Dallas Funding (\$319,964), 1987 - 1989. Ecological Survey and Study of the Trinity River, Texas.

Co-principal Investigator, Research Contract, Hoechst-Roussel Agri-Vet (Hoechst-Celanese) Co. Funding (\$325,000), 1988 - 1989. Fate and Effects of Tralomethrin in Mesocosms.

Co-principal Investigator, Research Contract, Hoechst Roussel Agri Vet (Hoechst-Celanese) Co. Funding (\$185,000), 1988 - 1989. Further Development of Mesocosms and Water Research Field Station.

Principal Investigator, Research Contract, U.S. Army Corps of Engineers Funding (\$24,500), 1988 - 1989. Further Development of a Water Quality Model and Lake Management Strategy for Pat Mayse Lake.

Principal Investigator, Research Contract, U.S. Army Corps of Engineers Funding (\$24,550), 1988 - 1989. Research on SONAR in Pat Mayse Lake.

Principal Investigator, Research Contract, U.S. Army Corps of Engineers Funding (\$107,000), 1988-1989. Water Research Field Station-Coupling a Herbicide Fate and Effects Model.

Principal Investigator, Research Contract, Pennwalt Corporation (\$2,000), 1988-1989. Degradation of Endothall by Chlorine.

Co-principal Investigator, Research Contract, Mobay Corporation (\$852,000), 1988-1990. Fate and Effects of Cyfluthrin in Mesocosms.

Co-principal Investigator, Research Contract, Shell Development Corporation (\$55,000) 1989 - 1990. Bioavailability of Sediment-sorbed Chemicals to Freshwater Organisms.

University of Mississippi:

Principal Investigator, Research Contract U.S. Army Corps of Engineers - Tulsa District Funding (\$24,500), 1988-1989. Limnology and Aquatic Botany of Pat Mayse Lake, Texas.

Principal Investigator, Research Contract, Shell Development Company Funding (\$50,000), 1989-1990. Evaluation of Sediment Toxicity Testing Procedures.

Co-principal Investigator, Research Contract Soil Conservation Service Funding (\$50,000), 1990-1991. Wetlands for Interception and Processing of Pesticides in Agricultural Runoff.

Co-principal Investigator, Research Contract Tennessee Valley Authority Funding (\$171,410),

1990-1991. Analysis of Aquatic Herbicides in Lake Guntersville, Alabama for the Aquatic Plant Management Program.

Principal Investigator, Research Contract, Ciba Giegy Corporation Funding (\$31,000), 1990. Effects of Atrazine on Aquatic Vascular Plants.

Co-principal Investigator, Research Contract, Dow-Elanco Corporation Funding (\$40,000), 1990. Analysis of Fluridone in Florida Aquatic Plant Management Programs.

Principal Investigator, Research Contract, U.S. Environmental Protection Agency - Gulf of Mexico Program (\$17,565) 1990-1991. Assistance with the Citizen's Advisory Group of the Gulf of Mexico Program.

Co-principal Investigator, CHP International, Inc. (U.S. Peace Corps) Funding (\$22,000), 1990. Aquaculture Training Sessions for Volunteers for Africa.

Co-principal Investigator, University of Mississippi Funding (\$1,000), 1989-1990. Water Systems for an Aquatic Toxicology Laboratory.

Principal Investigator, Internal Equipment Funding, University of Mississippi Associates Funding (\$25,000), 1990-1991. Aquisition of an Ion Chromatograph/High Performance Liquid Chromatograph.

Principal Investigator, U.S. Army Corps of Engineers, Waterways Experiment Station Funding (\$250,000), 1990-1993. Development of Controlled Release Herbicides for Aquatic Use.

Principal Investigator, American Petroleum Institute Funding, (\$250,000), 1990 -1992. Reference Toxicants and Reference Sediments for Sediment Toxicity Testing.

Principal Investigator, Research Contract, Tennessee Valley Authority Funding (\$168,000), 1991-1992. Aquatic Herbicides in Guntersville Reservoir, Alabama - National Demonstration Project.

Co-principal Investigator, Research Contract, U.S. Department of the Army, Vicksburg District, Corps of Engineers Funding (\$96,036), 1991-1992. Monitoring Water Quality at Arkabutla, Enid, Grenada, and Sardis Lakes.

Principal Investigator, Research Contract, ABC Laboratories, Inc. and Zoecon Corporation Funding (\$10,000), 1991. Outdoor Microcosm Study of an Insect Growth Regulator.

Co-principal Investigator, Research Contract, Shell Development Company Funding (\$192,000), 1991-1993. Development of a Model Stream Facility and Evaluation of the Environmental Safety of a Surfactant.

Principal Investigator, Research Contract, U.S. Army Waterways Experiment Station Funding (\$25,000), 1991-1992. Evaluation of New Herbicide Delivery System for Control of Aquatic Plants.

Principal Investigator, Research Contract, U.S. Army Waterways Experiment Station Funding (\$64,000), 1992-1993. Evaluation of New Herbicide Delivery Systems for Control of Aquatic Plants.

Principal Investigator, Research Contract, American Petroleum Institute Funding (\$100,000), 1992-1993. New Sediment Bioassays and Reference Sediments.

Principal Investigator, Mississippi State Department of Wildlife, Fisheries, and Parks Funding (\$6,000), 1991-1993. Cooperative Agreement for Assistance with Walleye Culture.

Co-Principal Investigator, Research Contract, U.S. Army Corps of Engineers Funding (\$100,848), 1992-1993. Monitoring of Water Quality at Arkabutla, Sardis, Enid, and Grenada Lakes.

Principal Investigator, Mississippi State Department of Wildlife, Fisheries and Parks Funding (\$3,000), 1992-1993. Cooperative Agreement for Assistance with Walleye Culture.

Principal Investigator, Research Contract, U.S. Army Waterways Experiment Station Funding (\$30,000), 1992-1994. Mobility and Bioavailability of Sediment Associated Contaminants.

Principal Investigator, Research Contract, U.S. Army Waterways Experiment Station Funding (\$25,000), 1992-1993. Effects of Food Quantity on Fathead Minnow Survival, Growth and Reproduction.

Principal Investigator, Research Contract, Eastman Kodak and the Silver Coalition Funding (\$53,183), 1992-1994. Evaluations of the Bioavailability and Toxicity of Silver in Sediments.

Principal Investigator, Research Contract, Shell Development Company Funding (\$150,000), 1992-1993. Ecological Evaluation of a Non-ionic Surfactant in Model Stream Mesocosms.

Principal Investigator, Research Contract, Shell Development Company Funding (\$30,342), 1993-1994. Assistance with Development and Construction of Constructed Wetlands for Tertiary Treatment of Refinery Effluent.

Principal Investigator, U.S. Department of Agriculture/ Cooperative State Research Service Funding (\$1,377,400), 1994-1995. Center for Water and Wetland Resources (Year 4).

Co-Principal Investigator, Research Contract, International Paper Company Funding (\$99,631),

1994-1995. Extensive Ecological and Toxicological Evaluation of the Arkansas River at Pine Bluff, AR.

Co-Principal Investigator, Research Contract, International Paper Company Funding (\$99,631), 1994-1995. Extensive Ecological and Toxicological Evaluation of the Yazoo River near Vicksburg, MS.

Principal Investigator, Research Contract, Shell Development Company Funding (\$150,000), 1994-1995. Ecological Evaluation of a Homologous Non-ionic Surfactant in Model Stream Mesocosms.

Principal Investigator, Research Contract, Shell Development Company Funding (\$144,242), 1994-1996. Evaluation of Constructed Wetlands for Tertiary Treatment of Refinery Effluent.

Principal Investigator, Research Contract, Texaco, Inc. Funding (\$20,000), 1995-1996. Evaluation of a Constructed Wetland for Removal of Ammonia from a Refinery Effluent.

Principal Investigator, Research Contract, Texaco, Inc. Funding (\$20,000), 1995-1996. Evaluation of a Constructed Wetland for Removal of Trace Metals from a Refinery Effluent.

Clemson University (1998-present):

Principal Investigator, Assistance with Design and Construction of a Wetland for Wastewater Treatment Sponsored by Shell Oil Products from 4/1/98 to 4/1/00 (\$10,000).

Principal Investigator, Evaluation of the Tombigbee River. Sponsored by Weyerhaeuser, Inc. 1/98 – 1/02 (\$22,000).

Principal Investigator, Constructed Wetland for Wastewater Treatment at IP's Mansfield, LA Facility, Sponsored by International Paper Company 8/98 – 12/00 (\$18,250).

Principal Investigator, Investigations of Pesticide Toxicity, Sponsored by Applied Biochemists, Inc. 1/00 – 1/01 (\$10,000).

Principal Investigator, Wetlands for Wastewater Treatment at Savannah River Site Sponsored by DOE thru SCUREF (SC Universities Research and Education Foundation) from 1/14/99 to 2/28/00 (\$28,088).

Principal Investigator, A-01 Outfall Constructed Wetlands Sponsored by DOE thru Westinghouse Savannah River thru SCUREF from 7/11/99 to 9/30/00 (\$624,730).

Principal Investigator, Design and Construction of a Wetland for Effluent Treatment. Sponsored

by International Paper Company 6/00 – 7/01 (\$25,000).

Principal Investigator, Evaluation of Foam Products. Flexible Products, Inc Funding from 9/99 – 1/01 (\$15,000).

Principal Investigator, US Department of Interior Funding (\$43,106), 2002-2004. Renovating Water for Conservation and Reuse.

Co-Principal investigator, US Department of Agriculture Funding (\$539,677), 2002-2004. Adhesion-Specific Nanoparticles for Removal of *Campylobacter jejuni* from Poultry.

Principal Investigator, Duke Energy Corporation Funding (\$54,473). 2001. Evaluation of the Oconee Nuclear Station Conventional Waste Treatment System.

Principal Investigator, Chevron Texaco Inc. Funding (\$24,000), 2001-present. Evaluation of Best Management Practices for Stormwater and Other Contaminated Waste Streams.

Principal Investigator, US Department of Energy Funding (\$26,024). 2001-2003. A01 Constructed Wetland Treatment Facility Redox Probe Maintenance and Consultation for the Savannah River Site (from WSRC through SCUREF).

Principal Investigator, U.S. Department of Interior Funding (\$43,106). 2002-2003. Renovating Water for Conservation and Reuse.

Principal Investigator, Sustainable Universities Initiative (\$7,000). 2002-2003. A Constructed Wetland Treatment System: A Green and Sustainable Solution to Prevent Water Pollution on Campus.

Principal Investigator, Duke Energy Corporation in Cooperation with Progress Energy Funding (\$187,000). 2003-2004. Treatment of Mercury, Selenium and Other Targeted Constituents in FGD Wastewater: A Constructed Wetland Pilot Study.

Principal Investigator, Chevron Corporation Funding (\$33,600). 2003-2004. Panama Storm Water Treatment Wetland.

Principal Investigator, Griffin Corporation Funding (\$20,000). 2002-2003. Response of Aluminum from Boat Pontoons to Komeen Exposures in Lake Murray, SC Water (with Sediments and *Hydrilla*).

Principal Investigator, Alabama Power Company Funding (\$75,000). 2004-2006. Development of Strategies for Controlling Nuisance Growths of *Lyngbya* in Alabama Power Company Reservoirs.

Principal Investigator, Department of Energy Funding (\$125,000) 2004-2005. Designing constructed wetlands to treat gas storage produced waters.

Principal Investigator, Duke Energy Corporation in Cooperation with Progress Energy Funding (\$105,000). 2004-2005. Continuing Studies of Treatment of Mercury, Selenium and Other Targeted Constituents in FGD Wastewater Using a Constructed Wetland Treatment System.

Principal Investigator, U.S. Department of Energy Funding (\$300,000) 2005-2008. Innovative Techniques for Remediation of Nontraditional Waters for Reuse in Coal-Fired Power Plants.

Principal Investigator, Duke Energy Corporation and ENTRIX Funding (\$100,000) 2006-2007. Further Evaluations of Constructed Wetland Treatment Systems for Flue Gas Desulfurization Waters.

Co-Principal Investigator, Chevron-Texaco Funding (\$50,000) 2006-2007. Evaluation of Boron Biogeochemistry in Constructed Wetlands.

Co-Principal Investigator, Monsanto Company Funding (\$300,000) 2006-2008. Potential Effects of Glyphosate Formulations on Amphibians.

Principal Investigator, Florida Department of Environmental Protection Funding (\$60,000) 2006-2008. Effects of Invasive Algae in Crystal River, FL and Potential Control Strategies to Protect the Florida Manatee.

Co-Principal Investigator, Chevron-Texaco Funding (\$50,000) 2008. Specifically Designed Constructed Wetland Treatment Systems for Produced Water in Chad.

Principal Investigator, Duke Energy Corporation and ENTRIX Funding (\$30,000) 2007-2008. Additional Evaluations of Constructed Wetland Treatment Systems for Flue Gas Desulfurization Waters.

Co-Principal Investigator, Clemson University Funding (\$50,000) 2006-2008. Evaluation of Constructed Wetland Treatment Systems for Parking Lot Stormwater (with Dr. Rockie English).

Principal Investigator, Applied Biochemists, Inc. Funding (\$36,000) 2008-2009. Approaches for Mitigation of Risks from Harmful Algal Blooms.

Co-Principal Investigator, Chevron-Texaco Funding (\$50,000) 2008. Specifically Designed Constructed Wetland Treatment Systems for Specific Produced Water (San Ardo, CA).

Co-Principal Investigator, U.S. Department of Energy Funding (\$800,000) 2009. Evaluation of Constructed Wetland Treatment Systems for Produced Waters. Innovative Water Management Technology to Reduce Environmental Impacts of Produced Water (DE-NT0005682). Clemson

University

Co-Principal Investigator, Chevron-Texaco Funding (\$50,000) 2009. Specifically Designed Constructed Wetland Treatment Systems for Produced Water in Chad.

Co-Principal Investigator, U.S. Department of Energy Funding (\$800,000) 2010. Carbon Capture and Sequestration Education (in partnership with the Southern States Energy Board). Clemson University

Co-Principal Investigator, Diamond-V Funding (\$115,237) 2010. Enhancing Selenium Treatment in Waters. Clemson University

Co-Principal Investigator, U.S. Department of Energy Funding (\$100,000) 2012. Evaluation of Constructed Wetland Treatment Systems for Produced Waters. Innovative Water Management Technology to Reduce Environmental Impacts of Produced Water (DE-NT0005682).Clemson University

Co-Principal Investigator, Shell Canada and Suncor Funding (\$680,238) 2013-2017. Treatment of Oil Sands Process Water Through Wetlands for Risk Mitigation. Clemson University

Principal Investigator, Anderson Regional Joint Water System Funding (\$135,704) 2014-2016. Assistance with Taste and Odor Issues in Source Water. Clemson University

Principal Investigator, LONZA Corporation Funding (\$105,000) 2013-2016. Control of Noxious and Invasive Algae in Water Resources. Clemson University

Principal Investigator, Aquatic Plant Management Society Funding (\$60,000) 2017-2019. Managing invasive *Nitellopsis obtusa*. Clemson University.

HONORS AND AWARDS:

Phi Sigma Doctoral Research Award, April, 1977.

Sigma Xi Doctoral Research Award, May, 1978.

Who's Who in the South and Southwest, 1979.

Personalities of the South, 1981.

International Who's Who, 1981.

Directory of Distinguished Americans, 1981.

Men of Achievement (International Biographical Center), 1981.

Phi Kappa Phi Honor Society, 1982.

Gordon Research Conference Travel Award, 1982.

NTSU President's Award to the Institute of Applied Sciences, 1985.

Mortar Board NTSU "Top Prof" Teaching Award, 1985.

Elected to NTSU Graduate Faculty, 1987.

Co-author - Best Student Paper (Burton Suedel and Phil Clifford), published in 1992 in *Environmental Toxicology and Chemistry*.

Certificate of Appreciation, 1993 Mississippi Region 7 Science and Engineering Fair. 1993.

Designated "Distinguished Southerner" by Editors Of *Southern Living*. Article on Water Watchdogs In April, 1994 edition of *Southern Living*.

Co-author - Best Student Paper (Arthur Dunn), Mid-South Aquatic Plant Management Society. Birmingham, AL. 1994.

Certificate of Appreciation, Environmental Biology Review Panel, U.S. EPA, January, 1995.

President, Oxford Exchange Club – Prevention of Child Abuse, 1996-1998.

Board of Directors, Society of Environmental Toxicology and Chemistry, 1989-1991; 1995-2001. Executive Committee 1997-2000. Vice President 1998-1999. President 1999-2000.

Member, Expert Advisory Committee, Canadian Network of Toxicology Centres. Environment Canada and Health and Welfare, 1992-2000.

Chair, Expert Advisory Committee, Canadian Network of Toxicology Centres, Environment Canada and Health and Welfare, 1996-1999.

Vice President's Award, Savannah River Technology Center. A-01 Outfall Wetland Treatment Confirmation Study, 2000.

Who's Who Among America's Teachers, 7th ed. 2002. p. 400.

Certificate of Appreciation for Outstanding Service to the Society of Environmental Toxicology and Chemistry, 2003.

Member, Canadian Foundation for Innovation, Science Review Panel, 2008 - 2009.

Chair, Canadian Foundation for Innovation, Science Review Panel, 2009.

Member of the Year, South Carolina Aquatic Plant Management Society, 2009.

Nominated for Governor's Research Award, 2010.

President's (USA) 'Closing the Circle' Environmental Award (with Savannah River Site) for Wetland Research and Application, 2010.

Clemson University Board of Trustees Award for Faculty Excellence, 2010.

Nominated for the 2011 Alumni Award for Outstanding Achievement in Research at Clemson University, 2011.

Aquatic Plant Management Society, T. Wayne Miller, Jr. Distinguished Service Award for Strategic Planning, Salt Lake City, Utah, July 24, 2012.

Co-Author (A.J. Calomeni), Best Technical Poster Award. Mid-West Aquatic Plant Management Society, Cleveland, OH. 2013.

Co-Author (A.J. Calomeni), Best Technical Poster Award. Aquatic Plant Management Society, San Antonio, TX. 2013.

Council for Agricultural Science and Technology, Certificate of Excellence – Educational Materials Award for Benefits of Controlling Nuisance Aquatic Plants and Algae in the United States, 2014.

Aquatic Plant Science Award. Northeast Aquatic Plant Management Society, Saratoga Springs, NY, January, 2015.

Co-Author (A.J. Calomeni) 3rd prize Student Presentation Presented at the 55th Annual Meeting of the Aquatic Plant Management Society, Myrtle Beach, SC. July 12-15, 2015.

Co-Author (T. Geer) 1st Prize Student Poster Presented at the 55th Annual Meeting of the Aquatic Plant Management Society, Myrtle Beach, SC. July 12-15, 2015.

APMS Technical Contributor Award, Presented at the 55th Annual Meeting of the Aquatic Plant Management Society, Myrtle Beach, SC. July 12-15, 2015.

Lifetime Research Achievement Award, Presented by Lonza, Inc. February, 2018

RESEARCH AND
TEACHING
INTERESTS:

Teaching Interests:

I have taught General Botany, General Biology Environmental Biology, Assessment of Water Quality, Water Quality Management, Environmental Analysis, Aquatic Toxicology, Limnology, Microbial Ecology, Radioisotopes, and Research Techniques, Aquatic Botany, Aquatic Microbiology, Sediment Toxicology, and Analysis of Biological Data, Ecological Risk Assessment, Plant Physiology, and Water Chemistry. My teaching interests also include: Plant Ecology, Wetland Ecology, and Phycology.

Research Interests:

Effects of heated effluents and other perturbations on primary productivity of vascular and non-vascular plants in terrestrial and aquatic systems.

In situ measurements of assimilatory sulfate reduction by periphytic organisms (algae, bacteria, and fungi), sulfur content and cycling in aquatic systems.

Physical models of aquatic systems as tools for the study of acute and chronic effects of industrial and power plant effluents on structural and functional aspects of aquatic microbial communities with emphasis on photosynthesis and sulfate assimilation.

Production, decomposition and role in nutrient cycling of aquatic macrophytes.

Impact of ash from industrial and power production processes on receiving systems and indigenous biota.

Decomposition and role of autochthonous and allochthonous detritus in aquatic and terrestrial systems with emphasis on the influences of macro-invertebrates, bacteria and fungi.

Invasion rates, population dynamics and elemental accumulation of the Asiatic Clam (*Corbicula fluminea*).

Extracellular products and other organic compounds as regulating factors of structural and functional aspects of aquatic microbial communities.

Benthic metabolism and physical and biological sediment characterization (using SCUBA--implemented techniques) as an index of eutrophication rates.

Electron transport system activity of benthic microflora as a pollution monitoring tool.

Serum enzymes of fish as an indicator of the quality and quantity of mixed effluents and their effects on receiving systems.

Ecosystem responses to stress in aquatic systems; Ecological risk assessment.

Relationships between carbon quantity and quality in ecosystems.

Responses of microbes (algae, bacteria, and fungi) to magnetic fields.

Ecological impacts associated with pulp and paper mills.

Biology and ecology of *Taxodium distichum* (Bald cypress) swamps in the Southwest.

Development of models for integrated control of nuisance aquatic vegetation and aquatic ecosystem management.

Microcosms and mesocosms as tools for ecological and environmental research.

Reservoir limnology and eutrophication.

Secondary aquatic plant products and biocontrol of aquatic plants.

Bioavailability of xenobiotic chemicals (e.g. pesticides) to aquatic organisms.

Sediments as sources and sinks for contaminants in aquatic ecosystems.

Population biology and physiological ecology of aquatic plants.

Artificial Intelligence in ecological problem solving.

Constructed wetlands for rehabilitation and wastewater treatment.

Metal speciation and bioavailability.

ORGANIZATIONS:

American Society of Limnology and Oceanography, Ecological Society of America, American Water Resources Association, North American Benthological Society, Water Pollution Control Federation, Phi Sigma Society Alpha Psi (VPI&SU) Chapter, Sigma Xi (VPI&SU) Chapter, American Institute of Biological Sciences, American Association for Advancement of Science,

Phi Kappa Phi (NTSU) Chapter, Aquatic Plant Management Society, Society of Environmental Toxicology and Chemistry.

OTHER
PROFESSIONAL
ACTIVITIES:

Consulting Aquatic Ecologist Microbiology Department, Clemson University, 1973-1975.

Investigator on Facilities Use Agreement #15 at Savannah River Laboratory in conjunction with Clemson University and VPI & SU, 1973-1975.

Consulting Aquatic Ecologist to American Electric Power Service Corporation, Canton, Ohio, 1974 - 1975.

Investigator on Facilities Use Agreement #28 at Savannah River Laboratory in conjunction with University of Texas, School of Public Health and VPI&SU, 1975 - 1979.

Consulting Microbial Ecologist to Bioengineering Research and Development Group, Oak Ridge National Laboratory, Oak Ridge, Tennessee, 1977.

Consulting Aquatic Ecologist to Virginia State Water Control Board, Richmond, 1977.

Invited lecturer in Plant Ecology and Environmental Biology, Botany Department, Clemson University, 1977.

Consulting Aquatic Ecologist to Center for Environmental Studies VPI&SU, 1978 - 1979.

Participant in Savannah River National Environmental Research Park meeting on Aquatic Research, Aiken, S.C., 1978.

Grant Proposal Review for the Division of Environmental Biology of the National Science Foundation, 1978 - 1987.

Consulting Aquatic Ecologist to Tennessee Eastman Company, Kingsport, Tennessee, 1978 - 1979.

ETSU Research Development Committee Presidential Appointment 1978 - 1979.

Consulting Aquatic Ecologist to Victor Equipment Company, Denton, Texas, 1980 -1983.

Review of publications for American Society for Testing and Materials.

Consulting Aquatic Ecologist to Environmental Biology Group, Oak Ridge National Laboratory, Oak Ridge, Tennessee, 1980.

Gordon Research Conference Participant (Environmental Sciences - Water), 1980.

Participant in Workshop on the role of aquatic microcosms in evaluating ecosystem effects of chemicals under the Toxic Substances Control Act (USEPA sponsored), 1980.

NTSU representative to Texas Systems of Natural Laboratories. (Presidential Appointment), 1981 - 1986.

Consulting Aquatic Ecologist to Environmental Systems Branch, U.S. Environmental Protection Agency, 1981.

School of Community Service Computing Services Advisory Council (Dean's Appointment), 1981-1986.

NTSU Biosafety Committee (Presidential Appointment), 1980 - 1987.

Peer Review of Research Program for Environmental Systems Branch of the U.S. Environmental Protection Agency (with H.T. Odum), 1981.

Participant in Workshop on Modeling the Fate of Chemicals in the Aquatic Environment (USEPA sponsored), Pellston, MI, 1981.

Co-chaired session on Microcosm Testing in Aquatic Toxicology at the Society of Environmental Toxicology and Chemistry's Annual Meeting, Washington, D.C., 1981.

Elected to Editorial Board of Environmental Toxicology and Chemistry, 1981- 1983.

Research advisor to the Ecosystem Branch of the U.S. Environmental Protection Agency, Las Vegas, 1982.

Gordon Research Conference Participant (Environmental Sciences-Water), 1982.

President, Sigma Xi, NTSU Club, 1982-1983.

Chair, Employment Service Committee of the Society of Environmental Toxicology and Chemistry, 1982 - 1984.

Review of manuscripts for Ecological Society of America, 1981 - present.

College of Arts and Sciences Committee on Interdisciplinary Research (Dean's Appointment), 1983.

Department of Biological Sciences Radiation Safety Officer, 1983 - 1987.

Participant, Workshop on Bioavailability of Chemicals from Dredged Materials (U.S. Army Corps of Engineers sponsored) Vicksburg, Mississippi, 1984.

Consulting Aquatic Ecologist to the City of Reno, Nevada, 1983 - Mitigation of Impacts of Population Growth and Development on Lake Tahoe, Truckee River and Pyramid Lake.

Consulting Aquatic Ecologist to the Las Colinas Development, 1983 - Impacts of Development on the Trinity River and Watershed.

School of Community Services Committee on Resources and Nontraditional Education (Dean's Appointment), 1983 - 1984.

Peer review of research programs of the Narragansett Bay, R.I., U.S. Environmental Protection Agency Research Laboratory (elected chairman of the review team), 1984.

North Texas State University Committee on Science and Technology (Presidential Appointment), 1984.

President, J.K. G. Silvey Society, North Texas State University, 1983 - 1984.

Invited Attendee, Society of Petroleum Industry Biologists, Annual Meeting, Houston, Texas, 1984.

Chair of the Annual Meeting of the Society of Environmental Toxicology and Chemistry, St. Louis, Missouri, Nov. 10-14, 1985.

Participant - Workshop on the Bioavailability of Sorbed Chemicals (U.S. Environmental Protection Agency and American Petroleum Institute sponsored) Florissant, Colorado, 1984.

Faculty Committee Member, Cooperative Education Program of the Institute of Applied Sciences, 1984.

Faculty Representative for the Sciences, elected to NTSU Faculty Senate, 1986.

Served as Chairman of Placement Committee of Aquatic Plant Management Society, 1987.

Peer review of research programs of the Gulf Breeze, FL., U.S. Environmental Protection Agency Research Laboratory (with H. Bergman and K. Solomon), 1987.

Consulting aquatic ecologist to the City of Dallas (Water Utilities), Algal Workshop, 1987.

Consulting aquatic toxicologist to the American Petroleum Institute, Bioavailability of Chemicals Sorbed to Sediments, 1987.

Consulting aquatic ecologist to the Association of Central Oklahoma Governments, Use Attainability Study of Crutcho Creek and the North Canadian River, 1987.

Chair, Professional Opportunities Committee (Placement) of the Aquatic Plant Management Society, 1987.

Co-chair (with L. Goodman), Workshop on Mysid Culture and Testing, at the Eighth Annual Meeting of the Society of Environmental Toxicology and Chemistry, Pensacola, FL, 1987.

Co-chair, sessions on Perspectives of Water Quality-Based Permitting and Field Validation of Laboratory Results, at the Eighth Annual Meeting of the Society of Environmental Toxicology and Chemistry, Pensacola, FL, 1987.

Appointed to the South Carolina Aquatic Plant Management Commission, 1987.

Presented short courses on Aquatic Plant Management in Texas, 1987.

Presented seminars at short courses on Aquatic Plant Management in Florida, Ft. Lauderdale and Orlando, FL, 1987.

Advisor on American Petroleum Institute Study of Bioavailability of Sediment Bound Chemicals (with P. Chapman and C. Missimer), 1987 - 1988.

Participated in a Workshop on Mesocosm Research Sponsored by USEPA, Duluth, MN, 1987.

Promotion review team member for P.R. Parrish, Environmental Research Laboratory, Gulf Breeze, FL, 1987.

Chair, session on Sediment Criteria Development and Testing at the South Central Chapter Meeting of the Society of Environmental Toxicology and Chemistry, Houston, TX, 1987.

Scientific Advisory Group, Proctor and Gamble Corporation, Cincinnati, Ohio, 1988,

Scientific Advisory Group, Botanical Research Institute of Texas (BRIT). Fort Worth, TX, 1988.

Adjunct Faculty, University of Guelph. Guelph, Ontario, Canada, 1988-1990.

Invited participant, North American Benthological Society Annual Meeting. Blacksburg, VA, May 22, 1990.

Invited participant, Association of Southeastern Biologists Special Workshop on Teaching the Limnology Laboratory. Baltimore, MD, April 20, 1990.

Invited participant, Aquatic Plant Management Meeting. Mobile, AL, July 16, 1990.

Chair, Education Committee of the Society of Environmental Toxicology and Chemistry, 1989-1991.

Chair, Professional Opportunities Committee of the Aquatic Plant Management Society, 1989-1991.

Chair, Discussion session on Wetlands Toxicology at the Society of Environmental Toxicology and Chemistry Annual Meeting. Washington, D.C., November 12, 1990.

Member, Aquatic Effects Dialogue Group of the Conservation Foundation, 1989-1991.

Member, Advisory Group to the World Wildlife Fund, 1989-1991.

Consulting Aquatic Ecologist and Toxicologist to Proctor and Gamble Company. Cincinnati, OH, 1989-1991.

Served on a discussion panel on the Future of Aquatic Plant Management with emphasis on regulatory issues regarding herbicides at the 25th Annual Meeting of the Aquatic Plant Control Research Program - U.S. Army Corps of Engineers. Orlando, FL, November 26-30, 1990.

Served on a discussion panel on the Future of Aquatic Plant Management with Emphasis on Simulation Technology and Modeling at the 25th Annual Meeting of the Aquatic Plant Control Research Program - U.S. Army Corps of Engineers. Orlando, FL. November 26-30, 1990.

Consulting Aquatic Toxicologist, U.S. Environmental Protection Agency, Ecorisk Program evaluation. 1990-1991.

Consulting Aquatic Toxicologist, International Paper Company. 1990-1991.

Consulting Aquatic Toxicologist, State of Mississippi. 1990-1991.

Consulting Aquatic Toxicologist, Environment Canada, Health and Welfare Canada - Canadian Network of Toxicology Centers, Expert Advisory Committee. 1991- 2001.

Consulting Aquatic Toxicologist, Ecorisk Forum on the Rocky Mountain Arsenal Refuge

Technical Expert Advisory Panel. 1991-1992.

Consulting Biologist and Ecotoxicologist, Arkansas Department of Higher Education and Arkansas State University Ph.D. Program Development. 1991- 1998.

Invited participant, Tiered Testing Issues for Freshwater and Marine Sediments, sponsored by U.S. EPA Office of Water and Office of Research and Development. Washington, D.C., September 16-18, 1992.

Invited speaker, Workshop on the Bioavailability and Toxicity of Copper, sponsored by the University of Florida, Center for Aquatic Plants. Gainesville, FL, September 2-3, 1992.

Peer reviewer for U.S. EPA, Framework for Ecological Assessment, Risk Assessment Forum. Washington, D.C., 1992 (EPA/130/R-92/001 - February 1992).

Invited speaker, 4th Annual Meeting of the Soil and Water Conservation Society. Baltimore, MD, August 9-12, 1992.

Participant, U.S. EPA Workshop on Bioaccumulation of Hydrophobic Chemicals. Washington, D.C., June, 1992.

Invited lecturer and participant, Young Scholars Program, NSF funded. Oxford, MS, 1992.

Counselor for summer interns with the Minorities Science Program, University of Mississippi funded. Oxford, MS, 1992.

Peer Review, Biology Peer Review Panel, U.S. EPA. Knoxville, TN, January, 1993.

Conference Co-organizer, First International Conference on Transport, Fate, and Effects of Silver in the Environment. University of Wisconsin, Madison, WI, August 8-10, 1993.

Chair, Exhibits Committee, 14th Annual Meeting of the Society of Environmental Toxicology and Chemistry. Houston, TX, November, 1993.

Consulting Aquatic Ecologist and Toxicologist to Weyerhaeuser Corporation. Columbus, MS, 1994 – 1999.

Member, Student Scholarship Committee, Mid-South Aquatic Plant Management Society. 1994 – 1997.

OSHA Safety Course. Norco, LA, 1994. Joint Agency Task Force Member, Guntersville Project. Guntersville, AL, April, 1994.

Featured speaker, Seminar on Pollution Prevention for Silver Imaging Systems. Lake Buena Vista, FL. May, 1994.

Conference Organizer, Second International Conference on Transport, Fate and Effects of Silver in the Environment. University of Wisconsin, Madison, WI, September 11-14, 1994.

Chair - Subcommittee, National Institute of Environmental Health Sciences (NIEHS) - Superfund Hazardous Substances Basic Research Program. Research Triangle Park, NC, October 16-19, 1994.

Discussion Panel Participant, 2nd International Conference on Environmental Fate and Effects Of Bleached Pulp Mill Effluents. Vancouver, B.C., Canada, November, 1994.

Genetic Toxicology Course (Audit). Oxford, MS, 1995.

Board of Directors, Society of Environmental Toxicology and Chemistry (elected), 1995.

Participant, U.S. EPA Environmental Biology Review Panel. Fort Worth, TX, January, 1995.

Participant, Society of Environmental Toxicology and Chemistry Workshop on Wetlands. Butte, MT, August, 1995.

Conference Organizer, Third International Conference on Transport, Fate and Effects of Silver in the Environment. Washington, D.C., August, 1995.

Featured Speaker, 1995 Scholars Conference, University of Mississippi. Oxford, MS, October, 1995.

Participant, Society of Environmental Toxicology and Chemistry Workshop on Whole-Effluent Toxicology. Pellston, MI, October, 1995.

Invited Participant, Round Table Discussion of Surfactant Toxicity in Aquatic Systems. Thornton, England, May, 1996.

Keynote Speaker, Mid-South Society of Environmental Toxicology and Chemistry (inaugural meeting). Memphis, TN, May, 1996.

Invited Speaker on Endocrine Disruption, Seminar on Emerging Water Issues, International Paper Company. Memphis, TN, June, 1996.

Instructor, Short Course on Constructed Wetlands, U.S. Army Waterways Experiment Station. Berkeley, CA. July, 1996.

Short Course on Constructed Wetland Design and Monitoring. Houston, TX, July, 1996.

Conference Organizer, Fourth International Conference on Transport, Fate and Effects of Silver in the Environment. Madison, WI, August, 1996.

Friends of Lake Keowee (FOLKS), Board of Directors (elected) and Member of the Technical Committee, 2003-present.

Bob C. Campbell Geology Museum, Clemson University, Board of Directors Member, 2003-present.

Associate Editor, Journal of Toxicology and Environmental Health Part B : Critical Reviews. 1999-2006.

Chair, Science Advisory Panel for the California Environmental Protection Agency – Aquatic Pesticides Committee, 2002-2004.

Member, Science Advisory Panel, USDA Jimmy Carter Plant Materials Center, Americus, GA. 2003-present.

Member, Science Advisory Panel for the USEPA/ SETAC Whole Effluent Toxicity Testing Committee, 1998-2004.

Member, Science Advisory Panel for Proposal and Research Review, Water Environment Federation, 2001-present.

Member, Science Advisory Panel for the National Council for Air and Stream Improvement – Long Term Receiving Water Studies, 1999-present.

Member, Board of Directors – Aquatic Plant Management Society, (elected) 2003-2006.

Co-editor (with Dr. J.W. Castle), Special Issue of Environmental Geoscience on Constructed Wetland Treatment Systems, 2009.

Review of WET testing protocols, US EPA, 2009.

Member, Board of Directors – South Carolina Aquatic Plant Management Society, (elected) 2007-2009.

Vice-President and Annual Meeting Program Chair – South Carolina Aquatic Plant Management Society, (elected) 2008-2009.

Chair, ad hoc Committee on NPDES Permitting, South Carolina Aquatic Plant Management

Society, 2008-2009.

Chair, Peer Review Panel, Canadian Foundation for Innovation, 2009.

Chair, Strategic Planning Committee, Aquatic Plant Management Society, 2008-2012.

Leader, Constructed Wetland Treatment Systems: A Short Course; presented at Synterra, Inc., Greenville, SC, June 14-18, 2010.

Chair, Peer Review Panel, Canadian Foundation for Innovation, 2010.

Peer Review Panel, Canadian Research Chairs, 2010.

Appointed Canada Review of University Environmental Programs, 2011.

Chair, Session on Components to reconstruct a successful wetland ecosystem at Key Factors to Successfully Reconstruct Boreal Wetland Ecosystems – An International Workshop. Chantilly, France. April 16-17, 2012.

Consulting Environmental Toxicologist, US Environmental Protection Agency, Science Advisory Panel, Problem Formulation and Risk Assessment, Washington, DC, June 11-14, 2012.

Invited speaker, California Weed Conference, University of California, Davis. September 22-24, 2014. Also presented seminar to Weed Science Department on Algal Management.

Invited Seminar, Western Carolina University, Constructed Wetland Treatment Systems – Putting Biogeochemistry to Work. September, 2014.

Invited Seminar, Presentations on Adaptive Water Resource Management and Noxious Algal Management, Michigan DEQ, September 29, 2014

Chair, Session on Microbial Control Challenges in Industrial Water, Recent Advances in Microbial Control, Society of Industrial Microbiology, San Francisco, CA (November 9-12, 2014).

Expert Panel, Nico Mines Constructed Wetlands Treatment System. Feb. 2015.

Chair, Tenure and Promotion Committee, Department of Forestry and Environmental Conservation, 2015 - .

Science Advisory Panel, Aquatic Ecosystem Restoration Foundation, 2010-present.

Science Advisory Panel, National Council for Air and Stream Improvement, 1999-present.

Vice-president, Aquatic Plant Management Society, elected 2015.

President, Aquatic Plant Management Society, 2017 – 2018.

BOOKS, BOOK
CHAPTERS, AND
MONOGRAPHS

M.Sc. Thesis: Rodgers, J.H., Jr. 1974. Thermal Effects on Primary Productivity of Phytoplankton, Periphyton, and Macrophytes in Lake Keowee, S.C. Botany Department, Clemson University. 88 pp.

Bi- weekly *in situ* determinations of Carbon-14 assimilation rates were made using SCUBA and chambers in a reservoir receiving thermal effluent from a nuclear power plant. Emphasis was placed upon relative contributions of each group of plants to the overall lake productivity and statistical correlations of productivity with water temperatures (1972-1974).

Ph.D. Dissertation: Rodgers, J.H., Jr. 1977. Aufwuchs Communities of Lotic Systems: Nontaxonomic Structure and Function. Biology Department and Center for Environmental Studies, VPI&SU. 336 pp.

Six model streams were constructed to assess effects of typical industrial and municipal effluents on primary productivity, assimilatory sulfate reduction and structural aspects of assemblages of attached microorganisms. Net microbial productivity of aufwuchs and primary productivity were estimated by assimilatory (S35) sulfate reduction and carbon-14 fixation, respectively, with heterotrophic productivity being the difference. Concurrent laboratory studies verified the efficacy of these procedures. The ability of methods to discern perturbations was tested. Direct correlations between structural measurements and functions were ascertained by regression analysis. Field investigations of aufwuchs communities were inconclusive due to variability and the heterogeneous distribution of aufwuchs communities (1974 - 1977).

Guthrie, R.K., D.S. Cherry, and J.H. Rodgers, Jr. 1974. The Impact of Ash Basin Effluent on Biota in the Drainage System. *Proc. Seventh Mid-Atlantic Industrial Waste Conference*: pp. 17-43. Drexel University, Philadelphia, Pa.

Dickson, K.L., J. Cairns, Jr., J.R. Clark and J.H. Rodgers, Jr. 1978. Evaluating Pollution Stress on Ecosystems. In: K.C. Flynn and W.T. Mason (eds.) *The Freshwater Potomac - Aquatic Communities and Environmental Stress*. The Interstate Commission on the Potomac River Basin, Rockville, Maryland. pp. 80 - 83.

- Rodgers, J.H., Jr., D.S. Cherry, K.L. Dickson, and J. Cairns, Jr. 1979. Invasion, Population Dynamics and Elemental Accumulation of *Corbicula fluminea* in the New River at Glen Lyn, Virginia. In: *Proc. First International Corbicula Symposium* J.C. Britton (ed.). Texas Christian University Research Foundation Publishers, Fort Worth, TX, pp. 99-110.
- Rodgers, J.H., Jr., K.L. Dickson, and J. Cairns, Jr. 1979. A Review and Analysis of Some Methods Used to Measure Functional Aspects of Periphyton. In: R.L. Weitzel (ed.) *Methods and Measurements of Periphyton Communities: Review*. American Society for Testing and Materials, Philadelphia, Pennsylvania (ASTM STP 690), pp. 142-167.
- Rodgers, J.H., Jr., D.S. Cherry, R.L. Graney, K.L. Dickson, and J. Cairns, Jr. 1980. Comparison of Heavy Metal Interactions in Acute and Artificial Stream Bioassay Techniques for the Asiatic Clam (*Corbicula fluminea*). In: J.G. Eaton, P.R. Parish, and A.C. Hendricks (eds.) *Aquatic Toxicology*. American Society for Testing and Materials, Philadelphia, PA. (ASTM STP 707), pp. 266-280.
- Cherry, D.S., J.H. Rodgers, Jr., R.L. Graney, and J. Cairns, Jr. 1980. *Dynamics and Control of the Asiatic Clam in the New River, Virginia*. Bulletin 123, Virginia Water Resources Research Center. Virginia Polytechnic Institute and State University, Blackburg, VA. 72 pp.
- Dillon, C.R. and J.H. Rodgers, Jr. 1980. *Thermal Effects on Primary Productivity of Phytoplankton, Periphyton, and Macrophytes in Lake Keowee*. S.C. Technical Report No. 81, Clemson University Water Resources Research Institute, Clemson, S.C. 115 pp.
- Rodgers, J.H., Jr., J.R. Clark, K.L. Dickson, and J. Cairns, Jr. 1980. Nontaxonomic analyses of structure and function of aufwuchs communities in lotic microcosms. In: J.P. Geisy, Jr. (ed.). *Microcosms in Ecological Research*. USDOE (CONF-781101) pp. 625-643.
- Lee, C.M., H. Bergman, W. Wood, and J.H. Rodgers, Jr. 1982. Workshop Summary and Conclusions. In: K.L. Dickson, A.W. Maki and J. Cairns, Jr. (eds.) *Modeling the Fate of Chemicals in the Aquatic Environment*, Ann Arbor: Ann Arbor Science Publ. pp. 397-407.
- Cairns, J., Jr., A.L. Buikema, Jr., D.S. Cherry, E.E. Herricks, R.A. Matthews, B.R. Neiderlahner, J.H. Rodgers, Jr. and W.H. Van der Schalie. 1982. *Biological Monitoring in Water Pollution*. Pergamon Press: New York. 116 pp.
- Rodgers, J.H., Jr., M.E. McKeivitt, D.O. Hammerland, K.L. Dickson and J. Cairns, Jr. 1983. Primary production and decomposition of submergent and emergent aquatic plants of two Appalachian rivers. In: T.D. Fontaine III and S.M. Bartell (eds.) *Dynamics of Lotic Ecosystems*. Ann Arbor Science Publ. pp. 298-301.
- Staples, C.A., K.L. Dickson, F.Y. Saleh, and J.H. Rodgers, Jr. 1983. A microcosm study of lindane and naphthalene partitioning for model validation. In: W. Bishop, R.D. Caldwell, and B.B. Heidolph (eds.) *Aquatic Toxicology and Hazard Assessment*. STP 802 ASTM Publications,

Philadelphia, PA. pp. 26-41.

Rodgers, J.H., Jr. K.L. Dickson, and M.J. Defoer. 1983. Bioconcentration of lindane and naphthalene in bluegills (*Lepomis macrochirus*). In: W. Bishop, R.D. Cardwell, and B.B. Heidolph (eds.) *Aquatic Toxicology and Hazard Assessment*. STP 802. ASTM Publications, Philadelphia, PA. pp. 300-311.

Saleh, F.Y., K.L. Dickson, and J.H. Rodgers, Jr. 1984. Transport Processes of Naphthalene in the Aquatic Environment. In: L. Pawlowski, A.J. Verdier, and W.J. Lacy (eds.) *Chemistry for Environmental Protection*. Elsevier Publisher. pp. 119-131.

Vance, B.D. and J.H. Rodgers, Jr. 1984. *General Botany*, 2nd Ed. Hunter Textbooks, Inc., Winston - Salem, NC. 93 pp.

Staples, C.A., K.L. Dickson, J.H. Rodgers, Jr., and F.Y. Saleh. 1985. A Model for Predicting the Influence of Suspended Sediments on Bioavailability of Neutral Organics in the Water Compartment. In: R.D. Cardwell, R.C. Bahner and R.E. Purdy (eds.) *Aquatic Toxicology and Hazard Assessment*. ASTM STP 845, ASTM Philadelphia, PA. pp. 417-428.

Dickson, K.L. and J.H. Rodgers, Jr. 1985. Assessing the Hazards of Effluents in the Aquatic Environment. In: H. Bergman, A. Maki and R. Kimerle (eds.) *Assessing the Hazards of Effluents to Aquatic Life*. Pergamon Press.

Rodgers, J.H., Jr., K.L. Dickson, F.Y. Saleh, and C.A. Staples. 1987. Bioavailability of Sediment-bound Chemicals to Aquatic Organisms; Some Theory, Evidence and Research Needs. In: K.L. Dickson, A.W. Maki and W.A. Brungs (eds.) *Fate and Effects of Sediment-Bound Chemicals in Aquatic Systems*. Pergamon: Elmsford, N.Y. pp. 245-266.

Anderson, J., W. Birge, J. Gentile, J. Lake, J.H. Rodgers, Jr. and R. Swartz. 1987. Biological Effects, Bioaccumulation, and Ecotoxicology of Sediment-associated Chemicals. In: K.L. Dickson, A.W. Maki, and W.A. Brungs (eds.) *Fate and Effects of Sediment-Bound Chemicals in Aquatic Systems*. Pergamon: Elmsford, N.Y. pp. 267-296.

Rodgers, J.H. Jr., P.A. Clifford and R.M. Stewart. 1991. Enhancement of HERBICIDE, the Aquatic Herbicide Fate and Effects Model. In: *Proceedings, 25th Annual Meeting, Aquatic Plant Control Research Program*. Misc. Paper A-91-3. pp. 279-282. U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

Rodgers, J.H. Jr. 1991. Herbicide Registration for Aquatic Use: A Look to the Future. In: *Proceedings, 25th Annual Meeting, Aquatic Plant Control Research Program*. Misc. Paper A-91-3. pp. 245-248. U.S. Army Engineer Waterways Experiment Station, Vicksburg, MS.

Graney, R.L., J.H. Kennedy and J.H. Rodgers, Jr. (eds.). 1993. *Aquatic Mesocosm Studies in*

Ecological Risk Assessment. Lewis Publishers, Boca Raton, FL. 723 pp.

Rodgers, J.H., Jr., A.W. Dunn and A.B. Jones. 1993. Triclopyr Concentrations in Eurasian Watermilfoil: Uptake Under Differing Exposure Scenarios. In: *Proceedings, 28th Annual Meeting, Aquatic Plant Control Research Program*. Misc. Paper A-94-2. pp. 249-259. U.S. Army Waterways Experiment Station, Baltimore, MD. November 15-18, 1993.

Rodgers, J.H., Jr. and A.W. Dunn. 1994. TVA - Guntersville Reservoir Herbicide Monitoring Survey 1991-1992. A Report to the Tennessee Valley Authority and U.S. Army Corps of Engineers Joint Agency Program. 116 p.

Solomon, K., D. Bright, P. Hodson, K.-J. Lehtinen, B. McKague and J. Rodgers, Jr. 1999. Evaluation of ecological risks associated with the use of chlorine dioxide for the bleaching of pulp. Report prepared for the Alliance for Environmental Technology. 86 pp.

Rodgers, J.H., Jr. and J.F. Thomas. 2004. Evaluations of the Fate and Effects of Pulp and Paper Mill Effluents from a Watershed Multistressor Perspective: Progress to Date and Future Opportunities. In: *Pulp and Paper Mill Effluent Environmental Fate and Effects*. D. L. Borton, T. J. Hall, R.P. Fisher, and J.F. Thomas (eds.). DEStech Publications, Lancaster, PA. pp.135-146.

PAPERS AND PUBLICATIONS:

Rodgers, J.H., Jr., G.L. Powell, and J.F. Geldard. 1973. Triple-label Liquid Scintillation Radioassay: Possible or Impossible? Seventh Annual Regional Meeting (Oct . 5) Wilmington, N.C. 43 pp.

Rodgers, J.H., Jr. and R.S. Harvey. 1976. The Effect of Current on Periphyton Productivity Determined Using Carbon-14. *Water Res. Bull.* 12(6): 1109-1118.

Cherry, D.S., R.K. Guthrie, J.H. Rodgers, Jr., K.L. Dickson, and J. Cairns, Jr. 1976. Responses of Mosquito Fish (*Gambusia affinis*) to Ash Effluent and Thermal Stress. *Trans. Am. Fish Soc.* 105(6):686-694.

Rodgers, J.H., Jr., D.S. Cherry, J.R. Clark, K.L. Dickson, and J. Cairns, Jr. 1977. The Invasion of Asiatic Clam, *Corbicula manilensis* (Philippi), in the New River, Virginia. *The Nautilus* 91(2):43-46.

Rodgers, J.H., Jr., D.S. Cherry, and R.K. Guthrie. 1978. Cycling of Elements in Duckweed (*Lemna perpusilla* Torrey) of an Ash Settling Basin and Swamp Drainage System. *Water*

Research 12:765-770.

Rodgers, J.H., Jr., K.L. Dickson, and J. Cairns, Jr. 1978. A Chamber for *In Situ* Measurement of Primary Productivity and Other Functional Processes of Periphyton in Lotic Systems. Arch. Hydrobiol. 84(3):389-398.

Clark, J.R., J.H. Rodgers, Jr., K.L. Dickson, and J. Cairns, Jr. 1980. Using Artificial Streams to Evaluate Perturbation Effects on Aufwuchs Structure and Function. Water Res. Bull. 16(1):100-104.

Graney, R.L., D.S. Cherry, J.H. Rodgers, Jr., and J. Cairns. 1982. The Influence of Thermal Discharges and Substrate Composition on the Population Structure and Distribution of the Asiatic Clam, *Corbicula fluminea*, in the New River, Virginia. The Nautilus 94(4):130-135.

Matthews, R.A., A.L. Buikema, J. Cairns, Jr. and J.H. Rodgers, Jr. 1982. Biological Monitoring Part IIA Receiving System Functional Methods, Relationships and Indices. Water Res. 16:129-139.

Saleh, F.Y., K.L. Dickson, and J.H. Rodgers, Jr. 1982. Fate of Lindane in the Aquatic Environment: Rate Constants of Physical and Chemical Processes. Environ. Toxicol. Chem. 1:289-297.

Dickson, K.L. and J.H. Rodgers, Jr. 1982. Assessing the Hazards of Effluents in the Aquatic Environment. In: H.L. Bergman, R.A. Kimerle and A.W. Maki (eds.) Environmental Hazard Assessment of Effluents. New York: Pergamon Press.

Rodgers, J.H., Jr., K.L. Dickson, F.Y. Saleh, and C.A. Staples. 1983. Use of Microcosms to Study Transport, Transformation and Fate of Organics in Aquatic Systems. Environ. Toxicol. Chem. 2:155-167.

Reinert, K.H. and J.H. Rodgers, Jr. 1984. Influence of Sediment Types on the Sorption of Endothall. Bulletin of Environmental Contamination and Toxicology. 32:557-564.

Rodgers, J.H., Jr., K.H. Reinert, and M.L. Hinman. 1984. Water Quality Monitoring in Conjunction with the Pat Mayse Lake Aquatic Plant Management Program. In: Proceedings, 18th Annual Meeting, Aquatic Plant Control Research Program. November 14-17, 1983. Raleigh, NC. U.S. Army Corps of Engineers. Misc. Paper A-84-4. pp.17-24.

Reinert, K.H., S. Stewart, M.L. Hinman, J.H. Rodgers, Jr., and T.J. Leslie. 1985. Release of Endothall from AQUATHOL GRANULAR AQUATIC HERBICIDE. Water Research 19:805-808.

Reinert, K.H., J.H. Rodgers, Jr., M.L. Hinman, and T.J. Leslie. 1985. Compartmentalization and

Persistence of Endothall in Experimental Pools. *Ecotoxicology and Environmental Safety* 10:86--96.

Reinert, K.H., J.H. Rodgers, Jr., T.J. Leslie, and M.L. Hinman. 1986. Static Shake-Flask Biotransformation of Endothall. *Water Research*. 20:255-258.

Reinert, K.H. and J.H. Rodgers, Jr. 1984. Validation Trial of Predictive Fate Models Using and Aquatic Herbicide (Endothall). *Environmental Toxicology and Chemistry* 5:449-461.

Saleh, F.Y., K.L. Dickson, J.H. Rodgers, Jr. and C.A. Staples. 1985. Fate of Naphthalene in the Aquatic Environment. *Environmental Toxicology and Chemistry* 6: 449-461.

Jop, K.M., J.H. Rodgers, Jr., P.B. Dorn and K.L. Dickson. 1985. Use of Hexavalent Chromium as a Reference Toxicant in Aquatic Toxicity Tests. In Tim Poston and R. Purdy (eds.) *Aquatic Toxicology and Environmental Fate* ASTM STP 921, American Society for Testing and Materials, pp. 390-403.

Dorn, P.B., J.H. Rodgers, Jr., K.M. Jop, J.C. Raia and K.L. Dickson. 1987. Hexavalent Chromium as a Reference Toxicant in Effluent Toxicity Tests. *Environmental Toxicology and Chemistry* 6:435-444.

Reinert, K.H., P.M. Rocchio, and J.H. Rodgers, Jr. 1986. Parameterization of Predictive Fate Models: A Case Study. *Environmental Toxicology and Chemistry* 6:99-104.

Jop, K.M., J.H. Rodgers, Jr. E.E. Price, and K.L. Dickson. 1986. Renewal Device for Test Solutions in *Daphnia* Toxicity Tests. *Bull. Environ. Contam. Toxicol.* 36: 95-100.

Hall, W.S., K.L. Dickson, F.Y. Saleh, J.H. Rodgers, Jr., D. Wilcox and A. Entazami. 1986. Effects of Suspended Solids on the Acute Toxicity of Zinc to *Daphnia magna* and *Pimephales promelas*. *Water Res. Bull.* 22(6):913-920.

Jop, K.M., T.F. Parkerton, J.H. Rodgers, Jr., K.L. Dickson, and P.B. Dorn. 1987. Comparative Toxicity and Speciation of Two Hexavalent Chromium Salts in Acute Toxicity Tests. *Environ. Toxicol. and Chem.* 6:697-703.

Hall, W.S., K.L. Dickson, F.Y. Saleh and J.H. Rodgers, Jr. 1986. Effects of Suspended Solids on the Bioavailability of Chlordane to *Daphnia magna*. *Arch. Environ. Contam. Toxicol.* 15:529--534.

Fisher, F.M., K.L. Dickson, J.H. Rodgers, Jr., K. Anderson and J. Slocomb. 1988. A Statistical Approach to Assess Factors Affecting Water Chemistry Using Monitoring Data. *Wat. Res. Bull.* 24:1017-1026.

- Dorn, P.B. and J.H. Rodgers, Jr., 1990. Variability associated with identification of toxics in NPDES effluent toxicity tests. *Environ. Toxicol. and Chem.* 8: 893-902.
- Reinert, K.H. and J.H. Rodgers, Jr. 1987. Fate and persistence of aquatic herbicides. *Reviews of Environmental Contamination and Toxicology* 98:61-98.
- Reinert, K.H., M.L. Hinman, and J. H. Rodgers, Jr. 1988. Fate of Endothall During the Pat Mayse Lake (Texas) Aquatic Plant Management Program. *Archives of Environmental Contamination and Toxicology* 17:195-199.
- Davis, T.M., B.D. Vance, and J.H. Rodgers, Jr. 1988. Productivity Responses of Periphyton and Phytoplankton to Bleach-kraft Mill Effluent. *Aquatic Toxicology* 12:83-106.
- Rodgers, J.H., Jr., P.A. Clifford, and R. M. Stewart. 1988. Development of A Coupled Herbicide Fate and Target Plant Species Effects Model (FATE). *Proceedings, 22nd Annual Meeting, Aquatic Plant Control Research Program.*
- Parkerton, T.F., S.M. Stewart, K.L. Dickson, J.H. Rodgers, Jr., and F.Y. Saleh. 1988. Evaluation of the Indicator Species Procedure for Deriving Site-Specific Water Quality Criteria for Zinc. *Aquatic Toxicol and Hazard Assess.:10th Vol, ASTM STP 971. Philadelphia.* pp. 423-435.
- Cassidy, K. and J.H. Rodgers, Jr. 1988. Response of Hydrilla (*Hydrilla verticillata* (L.f.) Royle) to Diquat and a Model of Uptake Under Nonequilibrium Conditions. *Environ. Toxicol. Chem.* 8:133-140.
- Price, E.E., M.J. Donahue, K.L. Dickson and J.H. Rodgers, Jr. 1990. Effects of Elevated Calcium Concentration on Na-K-ATPase Activity in Two Euryhaline Species, *Cyprinodon variegatus* and *Myxidopsis bahia*. *Bull. Environ. Contam. Toxicol.* 44:121-128.
- Rodgers, J.H., Jr. and A.W. Dunn. 1992. Developing Design Guidelines for Constructed Wetlands to Remove Pesticides from Agricultural Runoff. *Ecol. Engineering* 1:83-95.
- Suedel, B.C. and J.H. Rodgers, Jr. 1991. Variability of Bottom Sediment Characteristics of the Continental United States. *Water Res. Bull.* 27:101-109.
- Suedel, B.C., J.H. Rodgers, Jr. and P.A. Clifford. 1993. Bioavailability of Fluoranthene in Freshwater Sediment Toxicity Tests. *Environ. Toxicol. Chem.* 12:155-165.
- Meyer, C.L., B.C. Suedel, J.H. Rodgers, Jr. and P.B. Dorn. 1993. Bioavailability of Sediment-sorbed Chlorinated Ethers. *Environ. Toxicol. Chem.* 12:493-505.
- Suedel, B.C. and J.H. Rodgers, Jr. 1994. Development of Formulated Reference Sediments for Freshwater and Estuarine Sediment Testing. *Environ. Toxicol. Chem.* 13(7):1163-1175.

Suedel, B.C. and J.H. Rodgers, Jr. 1994. Responses of *Hyalella azteca* and *Chironomus tentans* to Particle Size Distribution and Organic Matter Content of Formulated and Natural Freshwater Sediments. Environ. Toxicol. Chem. 13(10):1639-1648.

Suedel, B.C., E. Deaver and J.H. Rodgers, Jr. 1995. Experimental Factors That May Affect Toxicity of Aqueous and Sediment-Bound Copper to Freshwater Organisms. Arch. Environ. Contam. Toxicol. 30(1):40-46.

Suedel, B.C., E. Deaver and J.H. Rodgers, Jr. 1995. Formulated Sediment as a Reference and Dilution Sediment in Definitive Toxicity Tests. Arch. Environ. Contam. Toxicol. 30(1):47-52.

Kline, E.R., R.A. Figueroa, J.H. Rodgers, Jr. and P.B. Dorn. 1996. Effects of a Nonionic Surfactant (C₁₄₋₁₅ AE-7) on Fish Survival, Growth and Reproduction in the Laboratory and in Outdoor Stream Mesocosms. Environ. Toxicol. Chem. 15(6):997-1002.

Rodgers, J.H., Jr., N.O. Crossland, E.R. Kline, W.B. Gillespie, Jr., R.A. Figueroa and P.B. Dorn. 1996. Design and Construction of Model Stream Ecosystems. Ecotoxicol. and Environ. Safety 33:30-37.

Suedel, B.C., E. Deaver and J.H. Rodgers, Jr. 1996. Environmental Factors That May Affect Toxicity of Aqueous and Sediment-Bound Copper to Freshwater Organisms. Arch. Environ. Contam. and Toxicol. 30:40-46.

Suedel, B.C. and J.H. Rodgers, Jr. 1996. Toxicity of Fluoranthene to *Daphnia magna*, *Hyalella azteca*, *Chironomus tentans* and *Stylaria lacustris* in Water-Only and Whole Sediment Exposures. Bull. Environ. Contam. Toxicol. 57:132-138.

Rodgers, J.H., Jr., E. Deaver, B.C. Suedel and P.L. Rogers. 1997. Comparative Aqueous Toxicity of Silver Compounds: Laboratory Studies with Freshwater Species. Bull. Environ. Contam. and Toxicol. 58 (6): 851-858.

Hawkins, W.B., J.H. Rodgers, Jr., W.B. Gillespie, Jr., A.W. Dunn, P.B. Dorn and M.L. Cano. 1997. Design and Construction of Wetlands for Aqueous Transfers and Transformations of Selected Metals. Ecotoxicol. And Environ. Safety 36: 238-248.

Gillespie, W.B., Jr., J.H. Rodgers, Jr., and N.O. Crossland. 1996. Effects of a Nonionic Surfactant (C₁₄₋₁₅ AE-7) on Aquatic Invertebrates in Outdoor Stream Mesocosms. Environ. Toxicol. Chem. 15(8): 1412-1422.

Gillespie, W.B., Jr., J.H. Rodgers, Jr., and P.B. Dorn. 1997. Responses of Aquatic Invertebrates to a C₉₋₁₁ Linear Alcohol Ethoxylate Surfactant in Outdoor Stream Mesocosms. Aquatic Toxicol. 37: 221-236.

Gillespie, W.B., Jr., J.H. Rodgers, Jr. and P.B. Dorn. 1996. Responses of Aquatic Invertebrates to a Linear Alcohol Ethoxylate Surfactant in Stream Mesocosms. *Ecotoxicol.* 41: 215-221.

Dorn, P.B., J.H. Rodgers, Jr., W.B. Gillespie, Jr., R.E. Lizotte, Jr. and A. W. Dunn. 1997. The effects of a C12-13 linear alcohol ethoxylate surfactant on periphyton, macrophytes, invertebrates and fish in stream mesocosms. *Environmental Toxicology and Chemistry* 16(8): 1634-1645.

Harrelson, R.A., J.H. Rodgers, Jr., W.B. Gillespie, Jr., A.W. Dunn, P.B. Dorn and M.L. Cano. 1997. Responses of fish exposed to a C9-11 linear alcohol ethoxylate nonionic surfactant in stream mesocosms. *Ecotoxicology* 6: 321-333.

Hawkins, W.B., J.H. Rodgers, Jr., W.B. Gillespie, Jr., A.W. Dunn, P.B. Dorn and M.L. Cano. 1997. Design and construction of wetlands for aqueous transfers and transformations of selected metals. *Ecotoxicology and Environmental Safety* 36: 238-248.

Rodgers, J.H., Jr., E. Deaver, B.C. Suedel and P.L. Rogers. 1997. Comparative aqueous toxicity of silver compounds: Laboratory studies with freshwater species. *Bulletin of Environmental Contamination and Toxicology* 58(6) 851-858.

Chapman, P.M., B. Anderson, S. Carr, V. Engles, R. Green, J. Hameedi, M. Harmon, P. Haverland, J. Hyland, C. Ingersoll, E. Long, J. Rodgers, Jr., M. Salazar, P.K. Sibley, P.J. Smith, R.C. Smith, B. Thompson and H. Windom. 1997. General guidelines for using the Sediment Quality Triad. *Marine Pollution Bulletin* 34(6): 368-372.

Moore, M.T., D.B. Huggett, W.B. Gillespie, Jr., J.H. Rodgers, Jr., and C.M. Cooper. 1998. Comparative toxicology of chlordane, chlorpyrifos, and aldicarb to four aquatic testing organisms. *Archives of Environmental Contamination and Toxicology* 34: 152-157.

Gillespie, W.B., Jr., J.H. Rodgers, Jr. and P.B. Dorn. 1998. Responses of aquatic invertebrates to linear alcohol ethoxylate surfactant in stream mesocosms. *Ecotoxicology and Environmental Safety* 41: 215-221.

Solomon, K., D. Bright, P. Hudson, K.-J Lehtinen, B. McKague and J. H. Rodgers. 1999. Evaluation of ecological risks associated with the use of chlorine dioxide for the bleaching of pulp. Report prepared for the Alliance for Environmental Technology. 86pp.

Rodgers, J.H., Jr. 1999. Editorial-Opportunities and challenges for SETAC in the next century. *Environmental Toxicology and Chemistry* 18(11): 2401-2402.

Moore, M.T., D.B. Huggett, G.M. Huddleston III, J.H. Rodgers, Jr. and C.M. Cooper. 1999. Herbicide effects on *Typha latifolia* (Linnaeus) germination and root and shoot development. *Chemosphere*. 38 (15): 3637-3647.

Lizotte, R.W., Jr., D.C.L. Wong, P.B. Dorn, and J.H. Rodgers, Jr. 1999. Effects of a homologous series of linear alcohol ethoxylate surfactants on fathead minnow early life stages. *Archives of Environmental Contamination and Toxicology* 37: 536-541.

Huggett, D.B., Gillespie, Jr. and J. H. Rodgers, Jr. 1999. Copper bioavailability in Steilacoom Lake sediments. *Archives of Environmental Contamination and Toxicology* 36: 120-123.

Gillespie, W.B., Jr. W.B. Hawkins, J.H. Rodgers, Jr., M.L. Cano and P.B. Dorn. 1999. Transfers and transformations of zinc in flow-through wetland microcosms. *Ecotoxicology and Environmental Safety* 43: 126-132.

Goodfellow, W.L., L.W. Ausley, D.T. Burton, D.L. Denton, P.B. Dorn, D.R. Grothe, M.A. Heber, T.J. Norberg-King and J. H. Rodgers, Jr. 2000. Major ion toxicity in effluents: A review with permitting recommendations. *Environmental Toxicology and Chemistry* 19(1): 175-182.

Gillespie, W.B., Jr., W.B. Hawkins, J.H. Rodgers, Jr., M.L. Cano, and P.B. Dorn. 2000. Transfers and transformations of zinc in constructed wetlands: Mitigation of a refinery effluent. *Ecological Engineering* 14: 279-292.

D'Surney, S.J., L.P. Eddy, D.P. Felder, J.H. Rodgers, Jr., and T.L. Deardorff. 2000. Assessment of the Impact of a Bleached Kraft Mill Effluent on a South-Central USA River. *Environmental Toxicology* 15(1): 28-39.

Huddleston, III, G.M., W.B. Gillespie, Jr., and J.H. Rodgers, Jr. 2000. Using Constructed Wetlands to Treat Biochemical Oxygen Demand and Ammonia Associated with a Refinery Effluent. *Ecotoxicology and Environmental Safety* 45: 188-193.

Moore, M.T., J.H. Rodgers, Jr., C.M. Cooper and S. Smith, Jr. 2000. Constructed wetland for mitigation of atrazine-associated agricultural runoff. *Environmental Pollution* 110: 393 – 399.

Lehman, R. and J.H. Rodgers, Jr. 2000. It's not that easy being green. *Water, Environment and Technology* (March, 2000) 54-59.

Moore, M.T., J.H. Rodgers, Jr., S. Smith, Jr. and C.M. Cooper. 2001. Mitigation of metolachlor-associated agricultural runoff using constructed wetlands in Mississippi, USA. *Agriculture, Ecosystems and Environment* 84: 169 – 176.

Muller, S.L., D.B. Huggett and J.H. Rodgers, Jr. 2001. Effects of copper sulfate on *Typha latifolia* seed germination and early seedling growth in aqueous and sediment exposures. *Arch. Environ. Contam. and Toxicol.* 40(2): 192-197.

Mastin, B.J., R. M. Sherrard, J.H. Rodgers, Jr. and Y.T. Shah. 2001. Hybrid cavitation/

constructed wetland reactors for treatment of chlorinated and non-chlorinated organics. *Chemical Engineering Tech* 24(8): 97A-105A.

Winfield, L.E., D'Surney, S.J., and Rodgers, J.H., Jr. 2001. The response of terrestrial plants to short-term hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) exposure. In Proceedings, Conference on Sustainability of Wetlands and Water Resources. Center for Water and Wetland Resources at the Univ. of MS Biology Field Station. University, MS.

Mastin, B.J., J.H. Rodgers, Jr. and T.L. Deardorff. 2002. Risk evaluation of cyanobacteria-dominated algal blooms in a North Louisiana reservoir. *J Aquat Ecosyst Stress Recov.* 9: 103-114.

Sherrard, R.M. C.L. Murray-Gulde, J.H. Rodgers, Jr. and Y.T. Shah. 2002. Comparative toxicity of chlorothalonil and chlorpyrifos: *Ceriodaphnia dubia* and *Pimephales promelas*. *Environ. Toxicol.* 17(6): 503-512.

Lizotte, R., P. Dorn, R.W. Steireide, D.C.L. Wong, and J.H. Rodgers, Jr. 2002. Ecological effects of an anionic C12-15 alkylethoxy sulfate surfactant in outdoor stream mesocosms. *Environ. Toxicol. Chem.* 21(12): 2742-2751.

Moore, M.T., R. Schulz, C.M. Cooper, S. Smith, Jr. and J.H. Rodgers, Jr. 2002. Mitigation of chlorpyrifos runoff using constructed wetlands. *Chemosphere* 46: 827-835.

Murray-Gulde, C.L., J.E. Heatley, A.L. Schwartzman and J.H. Rodgers, Jr. 2002. Algicidal effectiveness of Clearigate, Cutrine-Plus and copper sulfate and margins of safety associated with their use. *Arch Environ Contam Toxicol* 43(1): 19-27.

Murray-Gulde, C.L., J.E. Heatley, T. Karanfil and J.H. Rodgers, Jr. 2003. Performance of a hybrid reverse osmosis – constructed wetland treatment system for brackish produced water. *Water Research* 37: 705-713.

Sherrard, R.M., C.L. Murray-Gulde, J.H. Rodgers, Jr. and Y.T. Shah. 2003. Comparative toxicology of Chlorothalonil: *Ceriodaphnia dubia* and *Pimephales promelas*. *Ecotoxicology and Environmental Safety* 56: 327-333.

Winfield, L.E., Rodgers, J.H., Jr., and D'Surney, S.J. 2004. The responses of terrestrial plants to short (<12 days) and long term (2,4, and 6 weeks) hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) exposure: Part I: Growth and development effects. *Ecotoxicology* 13: 335-347.

Sherrard, R.M., J.S. Berr, C.L. Murray-Gulde, J.H. Rodgers, Jr. and Y.T. Shah. 2004. Feasibility of Constructed Wetlands for Removing Chlorothalonil and Chlorpyrifos from Aqueous Mixtures. *Environmental Pollution* 127: 385-394.

Huddleston, G.M., J.H. Rodgers, Jr., C.L. Murray-Gulde and F. D. Mooney. 2005. Designing constructed wetlands for mitigating risks from flue gas desulfurization wastewater. Proceedings of the Georgia Water Resources Conference, April 25-27. Univ. of Georgia, K.J. Hatcher (ed.) Institute of Ecology, The University of Georgia, Athens, GA.

Murray-Gulde, C. L, Berr, J. and Rodgers, Jr., J.H. 2005. Evaluation of a constructed wetland designed to decrease copper concentrations in a wastestream. *Ecotoxicology and Environmental Safety* 61:60-73.

Murray-Gulde, G.M. Huddleston III, K.V. Garber and J.H. Rodgers, Jr. 2005. Contributions of *Schoenoplectus californicus* in a constructed wetland system receiving copper contaminated wastewater. *Water, Air and Soil Pollution* 163: 355-378.

J.H. Rodgers, Jr., G.M. Huddleston III, C.L. Murray-Gulde and F. D. Mooney. 2005. Designing constructed wetlands for mitigating risks from flue gas desulfurization wastewater. *Proceedings of the International Water Conference*, October, 2005. Orlando, FL. 7pp.

Castle, J. W., Evan H. Cross, L. E. Kanagy, J. H. Rodgers, and B. M. Johnson. 2006. Management of produced waters from underground gas storage. *GasTIPS*. 12(4):11-13.

Kanagy, L.E., B.M. Johnson, J.W. Castle, and J.H. Rodgers Jr. 2008. Design and performance of a pilot-scale constructed wetland treatment system for natural gas storage produced water. *Bioresource Technology* 99:1877-1885.

Castle, J.W. and J.H. Rodgers, Jr. 2008. Constructed wetlands treatment systems: Renovation of impaired waters for beneficial reuse. (Introduction: Special Issue 1) *Environmental Geosciences* 15(1): iv.

Rodgers, J.H., Jr. and J.W. Castle. 2008. Constructed wetland systems for efficient and effective treatment of contaminated waters for reuse. *Environmental Geosciences* 15 (1): 1-8.

Huddleston, G.M., and J.H. Rodgers, Jr. 2008. Design of a constructed wetland system for treatment of copper-contaminated wastewater. *Environmental Geosciences* 15(1): 9-19.

Murray- Gulde, C., William Bridges and J.H. Rodgers, Jr. 2008. Evaluating performance of a constructed wetland treatment system designed to decrease bioavailable copper in a waste stream. *Environmental Geosciences* 15 (1): 21-38.

Castle, J.W. and J.H. Rodgers, Jr. 2008. Constructed wetland treatment systems: Renovation of impaired waters for beneficial reuse. (Introduction: Special Issue II) *Environmental Geosciences* 15(3): iv.

Eggert, D.A, J. H. Rodgers, Jr., G. M. Huddleston, and C. E. Hensman. 2008. Performance of

Pilot-Scale Constructed Wetland Treatment Systems for Flue Gas Desulfurization (FGD) Waters. *Environmental Geosciences* 15(3): 115-129.

Johnson, B M., M.M. Chao, O.R. Tedrow, A.D. McQueen, and J.H. Rodgers, Jr. 2008. Responses of *Lepomis macrochirus*, *Pimephales promelas*, *Hyalella azteca*, *Ceriodaphnia dubia*, and *Daphnia magna* to Exposures of Algimycin® PWF and Copper Sulfate Pentahydrate. *Journal of Aquatic Plant Management* 46: 176-183.

Johnson, B. M., L. E. Kanagy, J. H. Rodgers Jr., J. W. Castle. 2008. Feasibility of a pilot-scale hybrid constructed wetland treatment system for simulated natural gas storage produced waters. *Environmental Geosciences* 15 (3): 91-104.

Rodgers, J. H., and B. M. Johnson. 2007. Technical Fact Sheet on Lyngbya (Blue-Green Alga) US Army Corps of Engineers, Waterways Experiment Station, Vicksburg, MS.

Kenagy, L.E., B.M. Johnson, J.W. Castle and J. H. Rodgers, Jr. 2008. Pilot scale constructed wetland treatment systems for simulated natural gas storage produced waters: comparison of hydrosol conditions and performance. *Environmental Geosciences* 15 (3): 105-113.

Jones, R.P., S.M. Hassan and John H. Rodgers, Jr. 2008. Influence of contact duration on sediment-associated copper fractionation and bioavailability. *Ecotoxicology and Environmental Safety* 71: 104-116.

Rodgers, John H., Jr. 2008. Algal toxins in pond aquaculture. Southern Regional Aquaculture Center pp. 1-8 (SRAC Publications).

Hall, T.J., R.P. Fisher, J.H. Rodgers, Jr., G.W. Minshall, W.G. Landis, T.G. Kovacs, B.K. Firth, M.G. Dubé, T.L. Deardorff and D.L. Borton. 2009. A long-term, multi-trophic level study to assess pulp and paper mill effluent effects on aquatic communities in four US receiving waters: Background and status. *Integrated Environmental Assessment* 5(2): 189-198.

Flinders, C.A., G.W. Minshall, T.J. Hall and J.H. Rodgers, Jr. 2009. Spatial and temporal patterns of periphyton chlorophyll a related to pulp and paper mill discharges in four US receiving streams. *Integrated Environmental Assessment* 5(2): 259 – 269.

Hall, T.J., R.P. Fisher, J.H. Rodgers, Jr., G.W. Minshall, W.G. Landis, T.G. Kovacs, B.K. Firth, M.G. Dubé, C.A. Flinders, T.L. Deardorff and D.L. Borton. 2009. A long-term, multi-trophic level study to assess pulp and paper mill effluent effects on aquatic communities in four US receiving waters: Lessons learned. *Integrated Environmental Assessment* 5(2): 283-290.

Dorman, L., J.W. Castle and J.H. Rodgers, Jr. 2009. Performance of a pilot-scale constructed wetland system for treating simulated ash basin water. *Chemosphere* 75: 939-947.

Castle, J.W. and J.H. Rodgers, Jr. 2009. Hypothesis for the role of toxin-producing algae in Phanerozoic mass extinctions based on evidence from the geologic record and modern environments. *Environmental Geosciences* 16(1): 1-23.

Iannacone, M.M., J.W.Castle and J.H. Rodgers, Jr. 2009. Characterization of flue gas desulfurization particulates in equalization basins. *Fuel* 88: 1580-1587.

Dorman, L. J.H. Rodgers, Jr. and J.W. Castle. 2009. Characterization of ash basin waters from a risk-based perspective. *Water, Air, & Soil Pollution*. 206:175-185.

Iannacone, M.M., J.W.Castle and J.H. Rodgers, Jr. 2009. Role of equalization basins in constructed wetland systems for treatment of particulate-associated elements in flue gas desulfurization waters. *Water, Air, & Soil Pollution* 203: 123-137.

Rodgers, J.H., B.M. Johnson and W.M. Bishop. 2010. Comparison of three algaecides for controlling the density of *Prymnesium parvum*. *Journal of the American Water Resources Association* 46: 153-160.

McQueen, A.D., Johnson B.M., Rodgers J.H Jr., English W.R. 2010. Campus Parking Lot Stormwater: Physicochemical Analyses and Toxicity Tests using *Ceriodaphnia dubia* and *Pimephales promelas*. *Chemosphere*. 79(5): 561-569

Pham, M. P. T., Castle, J. W., and Rodgers, J. H., Jr., 2011. "Application of Water Quality Guidelines and Water Quantity Calculations to Decisions for Beneficial Use of Treated Water," *Applied Water Science*, v. 1, p. 85-101.

Horner, J. E., Castle, J. W., and Rodgers J. H., Jr. 2011. A Risk Assessment Approach to Identifying Constituents in Oilfield Produced Water for Treatment Prior to Beneficial Use, *Ecotoxicology and Environmental Safety* 74: 989-999. DOI 10.1016/j.ecoenv.2011.01.012

Spacil, M. M., Rodgers, J. H., Jr., Castle, J. W., and Chao, W. Y., 2011 "Performance of a Pilot-Scale Constructed Wetland Treatment System for Selenium, Arsenic, and Low Molecular Weight Organics in Simulated Fresh Produced Water," *Environmental Geosciences*, v. 18, p. 145-156.

Spacil, M. M., Rodgers, J. H., Jr., Castle, J. W., Murray Gulde, C. L., and Myers, J. E., 2011 "Treatment of Selenium in Simulated Refinery Effluent Using a Pilot-Scale Constructed Wetland Treatment System," *Water, Air, & Soil Pollution*, v. 221, p. 301-312 (2011). DOI 10.1007/s11270-011-0791-z.

Castle, J. W., and Rodgers J. H., Jr. 2011. Reply to Discussion on Hypothesis for the Role of

Toxin-Producing Algae in Phanerozoic Mass Extinctions Based on Evidence from the Geologic Record and Modern Environments. *Environmental Geosciences* 18:58-60.

Pham, M. P. T., Castle, J. W., and Rodgers, J. H., Jr., 2011. "Application of Water Quality Guidelines and Water Quantity Calculations to Decisions for Beneficial Use of Treated Water," *Applied Water Science*, v. 1, p. 85-101.

Alley, B., Beebe, A., Rodgers, J. H., Jr., and Castle, J. W., 2011. "Chemical and Physical Characterization of Produced Waters from Conventional and Unconventional Fossil Fuel Resources," *Chemosphere*, v. 85, p. 74-82.

Pham, M. P. T., Castle, J. W., and Rodgers, J. H., Jr., 2011. "Biogeochemical Process Approach to the Design and Construction of a Pilot-Scale Wetland Treatment System for an Oilfield Produced Water," *Environmental Geosciences*, v. 18, p. 157-168.

Fuentes, L., L.J. Moore, J.H. Rodgers, Jr., W. Bowerman, G.K. Yarrow, W. Chao. 2011. Comparative toxicity of two glyphosate formulations (Original formulation of Roundup and Roundup Weathermax) to six North American larval anurans. *Env. Toxicol. Chem.* 12: 2756-2761.

Horner, J., J.W. Castle, J.H. Rodgers Jr., C. Murray-Gulde, and J. Myers, 2012. Design and Performance of Pilot-Scale Constructed Wetland Treatment Systems for Treating Oilfield Produced Water from Sub-Saharan Africa. *Water, Air, and Soil Pollution*, 223(5): 1945-1957.

Moore, L.J., L. Fuentes, J.H. Rodgers, Jr., W. Bowerman, G.K. Yarrow, W. Chao, W. Bridges, Jr. 2012. Relative toxicity of the components of Roundup to five North American anurans. *Ecotox. and Env. Safety* 78: 128-133.

Willis, B.E., B.L. Alley and J.H. Rodgers, Jr. 2013. Bioavailability and analytical measurements of copper residuals in sediments. *Water, Air and Soil Pollution* 224: 1423-1433.

Alley, B.L., B. Willis, J.H. Rodgers, Jr. and J.W. Castle. 2013. Seasonal Performance of a Hybrid Constructed Wetland Treatment System for Simulated Fresh Oil Field - Produced Water. *Water Air Soil Pollut.* 244: 1639-1654.

Alley, B.L., B. Willis, J.H. Rodgers, Jr. and J.W. Castle. 2013. Water depths and treatment performance of pilot-scale free water surface constructed wetland treatment systems for simulated fresh oilfield produced water. *Ecological Engineering* 61: 190-199.

Beebe, D.A., J.W. Castle and J.H. Rodgers, Jr. 2013. Treatment of ammonia in pilot-scale constructed wetland systems with clinoptilolite. *Journal of Environmental Chemical Engineering* 1: 1159-1165.

Issacs, D.A., R.G. Brown, W.A. Ratajczyk, N.W. Long, J.H. Rodgers, Jr. and J.C. Schmidt.

2013. Solve taste-and-odor problems with customized treatment. *Opflow* (July 2013) 26-29.
- Haynie, R. , J. Morgan , B. Bartelme , B. Willis , J. H. Rodgers Jr., L. Jones, S. Wilde. 2013. Harmful algal blooms and toxin production in Georgia ponds. In: *Proceedings of the 2013 Georgia Water Resources Conference, held April 10–11, 2013, at the University of Georgia.* 5 pp.
- Fuentes. L., L.J. Moore, J.H. Rodgers, Jr., W.W. Bowerman, G.K. Yarrow and W.Y. Chao. 2014. Role of sediments in modifying the toxicity of two Roundup formulations to six species of larval anurans. *Env. Toxicol. Chem.* 33: 2616-2620.
- Getsinger, K., Dibble, E., Rodgers, J. and Spenser, D. 2014. Benefits of Controlling Nuisance Aquatic Plants and Algae in the United States. *CAST.* 12 pp.
- Schwindaman, J.P., J.W. Castle and J.H. Rodgers, Jr. 2014 Fate and distribution of arsenic in a process-designed pilot-scale constructed wetland treatment system. *Ecological Engineering* 68: 251-259.
- Beebe, D. A., Castle, J. W., F.J. Molz and Rodgers, J. H., Jr., 2014. Effects of Evapotranspiration on Treatment Performance in Constructed Wetlands: Experimental Studies and Modeling, *Ecological Engineering* 71: 394-400.
- Schwindaman, J. P., Castle, J. W., and Rodgers, J. H., Jr., 2014. Biogeochemical Process-Based Design and Performance of a Pilot-Scale Constructed Wetland for Arsenic Removal from Simulated Bangladesh Groundwater, *Water, Air, & Soil Pollution* 225: 2009 (11 pp.).
- Pardue, M. J., Castle, J. W., Rodgers, J. H., Jr., and Huddleston, G. M., III, 2014. Treatment of Oil and Grease in Produced Water by a Pilot-Scale Constructed Wetland System, *Chemosphere* 103: 67-73.
- Pardue, M. J., Castle, J. W., Rodgers, J. H., Jr., and Huddleston, G. M., III, 2015. Effects of Simulated Oilfield Produced Water on Early Seedling Growth after Treatment in a Pilot-Scale Constructed Wetland System, *International Journal of Phytoremediation* 17(4): 330-340.
- Calomeni A.J., Rodgers Jr. J.H. 2015. Evaluation of six measures for algal (*Microcystis aeruginosa*, *Planktothrix agardhii* and *Pseudokirchneriella subcapitata*) viability. *Ecotoxicology and Environmental Safety.* 11: 192-198.
- Calomeni A.J., Kinley C.M., Rodgers Jr. J.H. 2015. Responses of *Planktothrix agardhii* and *Pseudokirchneriella subcapitata* to copper sulfate (CuSO₄ H₂O) and a chelated copper compound (Cutrine®-Ultra). *Water, Air and Soil Pollution* 225: 2231.
- Calomeni A.J., Iwinski K.J., Kinley C.M., McQueen A., Rodgers Jr. J.H. 2015. Responses of

Lyngbya wollei to algaecide exposures and a risk characterization associated with their use. *Ecotoxicology and Environmental Safety*. 116: 90-98.

Kinley C.M., Rodgers Jr. J.H., Iwinski K.J., McQueen A.D., Calomeni A.J. 2015. Analysis of Algaecide Exposures: an Evaluation of the I_3^- Method to Measure Sodium Carbonate Peroxyhydrate Algaecides. *Water Air and Soil Pollution*. 226: 169-178.

Iwinski K. J., Calomeni A.J., Geer T. D., Rodgers Jr. J.H. 2015. Cellular and Aqueous Microcystin-LR Following Laboratory Exposures of *Microcystis aeruginosa* to Copper Algaecides. *Chemosphere*. 147: 74-81.

Kinley, C.M., McQueen, A.D., & Rodgers Jr., J.H. 2016. Comparative responses of aquatic organisms to exposures of a commercial naphthenic acid. *Chemosphere*, 153: 170-178.

Iwinski K.J., Kinley C.M., McQueen A.D., Calomeni A.J., Geer T.D., Rodgers Jr. J.H. 2016. Sediment Copper Concentrations, *in situ* Benthic Abundance, and Sediment Toxicity: Comparison of Coves Treated with Copper-Based Algaecides and Untreated Coves in a Southern Reservoir. *Water Air and Soil Pollution*. 227: 85-95.

McQueen, A.D., Kinley, C.M., Kiekhaefer, R.L., Calomeni, A.J., Rodgers Jr., J.H., & Castle, J.W. 2016. Photocatalysis of a Commercial Naphthenic Acid in Water using Fixed-film TiO_2 . *Water, Air, and Soil Pollution*, 227: 1-11.

Huddleston, M., Rodgers Jr., J. H., Wardlaw, K., Geer, T., Calomeni, A. 2016. Adaptive Water Resource Management for Taste and Odor control for the Anderson Regional Joint Water System. South Carolina American Water Works Association. Winter 2016. 41-45.

McQueen, A.D., Kinley, C.M., Iwinski, K.J., Calomeni, A.J., Rodgers Jr., J.H. 2016. Effects of acid volatile sulfide (AVS) on *Hyalella azteca* from Na_2S amended sediment. *Water, Air, and Soil Pollution*, 227: 1-10.

Geer, T.D., Kinley, C.M., Iwinski, K.J., Calomeni, A.J. Rodgers Jr., J.H. 2016. Comparative toxicity of sodium carbonate peroxyhydrate to freshwater organisms. *Ecotoxicology and Environmental Safety*, 132: 202-211.

Kinley, C.M., Gaspari, D.P., McQueen, A.D., Rodgers, Jr., J.H., Castle, J.W., Friesen, V., Haakensen, M. 2016. Effects of environmental conditions on aerobic degradation of a commercial naphthenic acid. *Chemosphere*, 161: 491-500.

McQueen, A.D., Kinley, C.M., Rodgers, Jr., J.H., Friesen, V., Bergsveinson, J., Haakensen, M.C. 2016. Influence of Commercial (Fluka) Naphthenic Acids on Acid Volatile Sulfide (AVS) Production and Divalent Metal Precipitation. *Ecotoxicology and Environmental Safety*, 134: 86-94.

Geer, T.D., Calomeni, A.J., Kinley, C.M., Iwinski, K.J., & Rodgers Jr., J.H. 2017. Predicting in situ responses of taste and odor producing algae in a southeastern US reservoir to a sodium carbonate peroxyhydrate algaecide using a laboratory exposure-response model. *Water, Air, and Soil Pollution*, 228 (53): 1-14.

McQueen, A.D., Kinley, C.M., Hendrikse, M., Gaspari, D.P., Calomeni, A.J., Iwinski, K.J., Castle, J.W., Haakensen, M.C., Peru, K.M., Headley, J.V., Rodgers, Jr., J.H. 2017. A risk-based approach for identifying constituents of concern in oil sands process-affected water from the Athabasca Oil Sands region. *Chemosphere*, 173: 340-350.

Iwinski, K.J., Rodgers, J.H., Kinley, C.M., Hendrikse, M., Calomeni, A.J., McQueen, A.D., Geer, T.D., Liang, J., Friesen, V., & Haakensen, M. 2017. Influences of CuSO₄ and chelated copper algaecide exposures on biodegradation of microcystin-LR. *Chemosphere*, 174: 538-544.

McQueen, A.D., Hendrikse, M., Gaspari, D.P., Kinley, C.M., Rodgers, J.H., & Castle, J.W. 2017. Performance of hybrid pilot-scale constructed wetland system for treating oil sands process-affected water from the Athabasca oil sands area. *Ecological Engineering*, 102: 152-165.

Kinley, C.M., Iwinski, K.J., Hendrikse, M., Geer, T.D., & Rodgers, J.H. 2017. Cell density dependence of *Microcystis aeruginosa* responses to copper algaecide concentrations: Implications for microcystin-LR release. *Ecotoxicology and Environmental Safety*, 145: 591-596.

Calomeni, A. J., Iwinski, K. J., McQueen, A. D., Kinley, C. M., Hendrikse, M., & Rodgers, J. H. 2017. Characterization of Copper Algaecide (Copper Ethanolamine) Dissipation Rates Following Pulse Exposures. *Water, Air, & Soil Pollution*, 228(11): 444.

Calomeni A.J., Geer T.D., Iwinski K.J., Rodgers Jr. J.H., Madsen J.D., Wersal R.M. 2017. Monitoring for National Pollutant Discharge Elimination System Permit Requirements: Algaecides. *Journal of Integrated Pest Management*. 8(1): 1-9.

Kinley C.M., Iwinski-Wood K.J., Geer T.D., Hendrikse M., McQueen A.D., Calomeni A.J., Liang J., Friesen V., Simair M.C., Rodgers Jr. J.H. 2017. Microcystin-LR Degradation Following Copper-Based Algaecide Exposures. *Water, Air and Soil Pollution*. 229: 62.

Calomeni, A. J., Kinley, C. M., Geer, T. D., Iwinski, K. J., Hendrikse, M., & Rodgers, J. H. 2018. Relationship among aqueous copper half-lives and responses of *Pimephales promelas* to a series of copper sulfate pentahydrate concentrations. *Ecotoxicology*: 1-8.

Geer, T.D., A.J. Calomeni and J.H. Rodgers, Jr. 2018. Methods for culturing and maintaining algae for management investigations. *J. Aquatic Plant Management* 56s: 48-58.

Calomeni, A.J., T.D. Geer and J.H. Rodgers, Jr. 2018. Laboratory studies for prediction of responses of algae to algaecides in situ. *J. Aquatic Plant Management* 56s: 59-66.

Geer T.D., Kinley C.M., Calomeni A.J., Iwinski-Wood K.J., Rodgers Jr. J.H. 2017. Influence of Dissolved and Particulate Organic Carbon on Exposures of a Sodium Carbonate Peroxyhydrate Algaecide and Consequent Responses of *Microcystis aeruginosa*. *Journal of the Aquatic Plant Management Society*. In Review.

Kinley C.M., Hendrikse M., Calomeni A.J., Geer T.D., Rodgers Jr. J.H. 2018. Solar Photocatalysis Using Fixed-Film TiO₂ for Microcystins from Colonial *Microcystis aeruginosa*. *Water, Air and Soil Pollution*. In Review.

Hendrikse M., Gaspari D.P., McQueen A.D., Kinley C.M., Calomeni A.J., Geer T.D., Simair M.C., Peru K.M., Headley J.V., Rodgers Jr. J.H., Castle J.W. 2018. Treatment of Oil Sands Process-Affected Waters Using a Pilot-Scale Hybrid Constructed Wetland. *Ecological Engineering*. In Press.

Calomeni A.J., Kinley C.M., Geer T.D., Hendrikse M., Rodgers Jr. J.H. 2017. *Lyngbya wollei* Responses to Copper-Algaecide Exposures Predicted Using a Concentration-Exposure Time (CET) Model: Influence of Initial Biomass. *Journal of the Aquatic Plant Management Society*. In Press.

PUBLISHED
ABSTRACTS AND
PRESENTATIONS:

Rodgers, J.H., Jr., and C.R. Dillon. 1974. A Comparative Study of the Primary Productivity of Limnetic Phytoplankton, Periphyton, and Benthic Macrophytes in Lake Keowee, S.C. S.C. Academy of Science (March 28-30) Coker College. Hartsville, S.C.

Rodgers, J.H., Jr., C.R. Dillon, and R.S. Harvey 1974. A Preliminary report on the Effects of Temperature Elevation and Current on Periphyton Production in Natural and Artificial Streams. S.C. Academy of Science (March 29-30) Coker College. Hartsville, S.C.

- Rodgers, J.H., Jr. and C.R. Dillon. 1974. Thermal Effects on Primary Productivity of Limnetic Phytoplankton, Periphyton, and Benthic Macrophytes. Assoc. Southeastern Biol. Bull. 21:78.
- Rodgers, J.H., Jr., C.R. Dillon, and R.S. Harvey. 1974. Effects of Current and Temperature Elevation on Periphyton Production in Natural and Artificial Streams. Assoc. Southeastern Biol. Bull. 21:79.
- Rodgers, J.H., Jr., D.S. Cherry, and R.K. Guthrie. 1975. Ash Basin Effluent Impact on the Aquatic Flora of a Stream and Swamp Drainage System. Assoc. Southeastern Biol. Bull. 22:76.
- Kuhn, D.L., J.H. Rodgers, Jr. and W.H. Yongue, Jr. 1975. The Production and Effects of Extracellular Products on Freshwater Microbial Communities. Assoc. Southeastern Biol. Bull. 22:61.
- Rodgers, J.H., Jr., K.L. Dickson and J. Cairns, Jr. 1976. Laboratory and Field Studies of Sulfur-35 Sulfate Assimilation by Periphytic Organisms. Assoc. Southeastern Biol. Bull. 25:30.
- Clark, J.R. and J.H. Rodgers, Jr. 1976. Laboratory studies of *Peltoperla maria* Nymph Feeding Rates and Efficiency. (Peltoptera: Peltoperlidae). Assoc. Southeastern Biol. Bull. 25:30.
- Rodgers, J.H., Jr., K.L. Dickson, and J. Cairns, Jr. 1976. Primary Production and Degradation rates of Submergent and Emergent Macrophytes of the New River, Glen Lyn, Va. Assoc. Southeastern Biol. Bull. 23:91.
- Clark, J.R., J.H. Rodgers, Jr. and K.L. Dickson. 1976. Relative Sensitivities of Methods Used to Evaluate the Effects of Perturbation on Periphyton Communities. Assoc. Southeastern Biol. Bull. 23:50.
- Rodgers, J.H., Jr., J.R. Clark, K.L. Dickson, and J. Cairns, Jr. 1977. Primary Production and Decomposition of Submergent and Emergent Aquatic Vascular Plants of the New River, Glen Lyn, Virginia. North Am. Benthological Soc. (April 6-8) Roanoke, VA. p. 26.
- Clark, J.R., J.H. Rodgers, Jr., K.L. Dickson, and J. Cairns, Jr. 1977. Analyses of Aufwuchs Communities. Assoc. Southeastern Biol. Bull. 24:81.
- Rodgers, J.H., Jr., J.R. Clark, K.L. Dickson, and J. Cairns, Jr. 1977. Functional Responses of Aufwuchs Communities to Perturbations in Artificial Streams. 40th Annual Meeting Am. Soc. Limnol. Oceanogr. (June 20-23) East Lansing, Mich.
- Rodgers, J.H., Jr., D.S. Cherry, K.L. Dickson, and J. Cairns, Jr. 1978. Influence of Thermal Effluent on Population dynamics of Asiatic Clam (*Corbicula manilensis*) in the New River, Virginia (Mollusca: Bivalvia). Assoc. Southeastern Biol. Bull. 25:48.

Clark, J.R., J.H. Rodgers, Jr., K.L. Dickson, and J. Cairns, Jr. 1978. A Benthic Diatometer for Use in Large Rivers. North Am. Benthological Soc. (May 10-12) Winnipeg, Manitoba, Canada, p.9.

Graney, R.L., J.H. Rodgers, Jr., D.S. Cherry, K.L. Dickson, and J. Cairns, Jr. 1978. Heavy Metal Accumulation by the Asiatic Clam (*Corbicula manilensis*) from Field Collections and Laboratory Bioassays. VA. Academy of Science, VPI&SU, Blacksburg, VA.

Rodgers, J.H., Jr., D.S. Cherry, R.L. Graney, K.L. Dickson, and J. Cairns, Jr. 1978. Comparison of Elemental Accumulation by the Asiatic Clam (*Corbicula fluminea*) from Thermal Influenced River Water and Laboratory Bioassays. American Society for Testing and Materials Symposium on Aquatic Toxicology. (Oct. 16-17) New Orleans, LA.

Rodgers, J.H., Jr., J.R. Clark, K.L. Dickson, and J. Cairns, Jr. 1978. Nontaxonomic Analyses of Structure and Function of Aufwuchs Communities in Lotic Microcosms. SREL Symposium "Microcosms in Ecological Research." (Nov. 8-11, 1978) Augusta, GA.

Dal Santo, D. and J.H. Rodgers, Jr. 1979. Bluegill (*Lepomis macrochirus*) Blood Enzymes as Indicators of Exposure to Sublethal Concentrations of Cadmium. Assoc. Southeastern Biol. Bull. 26:54.

Wallace, L.J.D. and J.H. Rodgers, Jr. 1979. Periphyton Electron Transport System as an Indicator of Perturbation in the Watauga River, Tennessee. Assoc. Southeastern Biol. 26:54.

Molloy, B.K. and J.H. Rodgers, Jr. 1979. Periphyton Respiration in the Watauga River, Tennessee: Impact of Industrial and Municipal Effluents. Assoc. Southeastern Biol. Bull. 26:55.

Graney, R.L., D.S. Cherry, and J. Cairns, Jr. 1979. Behavioral and Lethal Responses of the Asiatic Clam (*Corbicula fluminea*) to Cu, Zn, Cu-Zn, and K exposures. Assoc. Southeastern Biol. Bull. 26:89.

Dickson, K.L., F.Y. Saleh, and J.H., Rodgers, Jr., 1980. Determining Specific Chemical Waste Load Allocations to Aquatic Receiving Systems. 53rd Annual Conference of the Water Pollution Control Federation. (Sept. 28 - Oct.3) Las Vegas, NV.

Rodgers, J.H., Jr., M.E. McKeivitt, D.O. Hammerland, K.L. Dickson, and J. Cairns, Jr. 1980. Primary Production and Decomposition of Submergent and Emergent Aquatic Plants of Two Appalachian Rivers. Symposium on Dynamics of Lotic Ecosystems. Savannah River Ecology Laboratory (Oct. 19-22) Augusta, GA.

Saleh, F.Y., K.L. Dickson, and J.H. Rodgers, Jr. 1980. Fate of Lindane in the Aquatic Environment: Rate Constants of Physical and Chemical Processes. Annual Meeting of the

Society of Environmental Toxicology and Chemistry. (Nov. 23-25) Arlington, VA.

Staples, C.A., K.L. Dickson, J.H. Rodgers, Jr. and F.Y. Saleh. 1981. A Microcosm Study of Lindane and Naphthalene Partitioning for Model Validation. Presented at the 6th Symposium on Aquatic Toxicology. (Oct. 13-14) Kansas, City, MO.

Rodgers, J.H., Jr., K.L. Dickson, F.Y. Saleh, and C.A. Staples. 1981. Use of Microcosms to Study Transport, Transformation, and Fate of Organics in Aquatic Systems. Annual Meeting of the Society of Environmental Toxicology and Chemistry. (Nov. 22-25) Arlington, VA.

Rodgers, J.H., Jr., 1982. Comparison of Biotransformation Rates to Biodegradation Rates and Mineralization to CO₂. 82nd Annual Meeting of the American Society for Microbiology, (March 7-12), Atlanta, GA.

Rodgers, J.H., Jr., K.L. Dickson, and T.J. Leslie. 1982 . Relationships of Biotransformation and Ultimate Biodegradation of Organics in Aquatic Conference on Environmental Sciences - Water. (June 28- July 2) New Hampton, N.H.

Saleh, F.Y., K.L. Dickson, J.H. Rodgers, Jr. 1982. Physical and Chemical Transport Processes for Naphthalene and Lindane in the Aquatic Environment. Annual Meeting of the American Chemical Society, Division, of Environmental Chemistry. (Vol. 22, No.1).

Rodgers, J.H., Jr., K.L. Dickson, F.Y. Saleh, C.S. Staples, and T.J. Leslie. 1982. Biodegradation and Biotransformation in the Hazard Evaluation Process. Third Annual Meeting of the Society of Environmental Toxicology and Chemistry. (November 14-17) Washington, D.C.

Leslie, T.J., M. Page, K.H. Reinert, C.K. Moses, J.H. Rodgers, Jr., K.L. Dickson, and M.L. Hinman. 1983. Biotransformation of Organic Chemicals - Factors Important in Test Design. 83rd Annual Meeting of The American Society for Microbiology. (March 6-9) New Orleans, LA.

Reinert, K.H., and J.H. Rodgers, Jr. 1983. Influence of Sediment Types on the Sorption of Endothall. Texas Water Pollution Control Federation. (May 25-27) Fort Worth, TX.

Rodgers, J.H., Jr. 1983. Overview of Systems Analysis in Environmental Impact Assessment, Fate and Effects of Radioactive Materials, Demonstration of Computer Based Decision Systems. Federal Energy Institute. (September 12-13) Cuernavaca, Morelos, Mexico.

Rodgers, J.H., Jr., K.H. Reinert, and M.L. Hinman. 1983. Water quality Monitoring in conjunction with the Pat Mayse Lake Aquatic Plant Management Program. Presented at the U.S. Army Corps of Engineers 18th Annual Aquatic Plant Control and Research Meeting. (November 14-17) Raleigh, NC.

Reinert, K.H., M.L. Hinman, J.H. Rodgers, Jr., and K.L. Dickson. 1984. Need for Feedback from

Fate and Effects Studies of Herbicides in Integrated Aquatic Weed Management. Presented at the 24th Annual Meeting of the Weed Science Society of America. (February 8-10) Miami, FL.

Hinman, M.L., K.H. Reinert, and J.H. Rodgers, Jr., 1984. The Use of Laboratory Tests, Microcosms, and Field Studies to Validate Environmental Fate Models. Presented at the 57th Annual conference of the Water Pollution Control Federation. (September 30-October 4) New Orleans, LA.

Reinert, K.H., and J.H. Rodgers, Jr. 1984. An Approach for Validating Predictive Fate Models Using an Aquatic Herbicide, Endothall. Presented at the 5th Annual Meeting of the Society of Environmental Toxicology and Chemistry. (November 4-7) Arlington, VA.

Rodgers, J.H., Jr., K.L. Dickson, F. Saleh, D. Wilcox, C. Staples, and S. Hall. 1984. Assessing the Role of Suspended Solids in Regulating the Bioavailability of Chemicals. Presented at the 5th Annual Meeting of the Society of Environmental Toxicology and Chemistry. (November 4-7) Arlington, VA.

Dorn, P.B., J.C. Raia, A.B. Greak, J.H. Rodgers, Jr., K.M. Jop, K.L. Dickson, and P.M. Rocchio. 1984. The Use of Potassium Dichromate as a Reference Toxicant in Effluent Bioassay Evaluations. Presented at the 5th Annual Meeting of the Society of Environmental Toxicology and Chemistry. (November 4-7) Arlington, VA.

Rodgers, J.H., Jr., and K.H. Reinert. 1984. Effects of Endothall Used to Control Eurasian Watermilfoil in Pat Mayse Lake, Texas. Presented at the Annual Meeting of the Florida Aquatic Plant Management Society. (October 23-25) Plant City, FL.

Reinert, K.H., and J.H. Rodgers, Jr. 1984. Fate of Endothall Used to Control Eurasian Watermilfoil in Pat Mayse Lake, Texas. Presented at the annual Meeting of the Florida Aquatic Plant Management Society. (October 23-25) Plant City, FL.

Rodgers, J.H., Jr., and P.A. Clifford. 1984. Pat Mayse Lake, Texas, Aquatic Plant Management Program: Continuing Studies. Presented at the U.S. Army Corps of Engineers 19th annual Aquatic Plant Control and Research Meeting. (November 14-17) Raleigh, NC.

Leslie, T.J., K.L. Dickson, and J.H. Rodgers, Jr. 1984. Effects of Suspended Solids on the Biotransformation Rate Kinetics of Anthracene in River Water. Sixth International Biodeterioration Symposium. (August 6-10) Washington, D.C.

Jop, K.M., J.H. Rodgers, Jr., P.B. Dorn, and K.L. Dickson. 1985. Use of Hexavalent Chromium as a Reference Toxicant in Toxicity Testing. Presented at the Ninth Symposium on Aquatic Toxicology and Environmental Fate. American Society for Testing and Materials Meeting. (April 14-16) Philadelphia, PA.

Dorn, P.B., K.M. Jop, J.H. Rodgers, Jr., and K.L. Dickson. 1985. Difficulties in Using Screening Bioassays for Effluent Toxicity Testing. Presented at the 6th Annual Meeting of the Society of Environmental Toxicology and Chemistry. St. Louis, MO.

Rodgers, J.H., Jr., P.A. Clifford, K.H. Reinert, and M.L. Hinman. 1985. Management of *Myriophyllum spicatum* using Endothall: The Pat Mayse Lake Experience. Presented at the 25th Annual Meeting of the Aquatic Plant Management Society. Vancouver, British Columbia, Canada.

Reinert, K.H., P.M. Rocchio, and J.H. Rodgers, Jr. 1985. Parameterization of Predictive Fate Models: A Case Study. Presented at the 6th Annual Meeting of the Society of Environmental Toxicology and Chemistry, St. Louis, MO.

Parkerton, T.F., S.S. Stewart, K.L. Dickson, J.H. Rodgers, Jr., and F.Y. Saleh. 1986. Evaluation of the Indicator Species Procedure for Deriving Site Specific Water Quality Criteria for Zinc. American Society for Testing and Materials -Tenth Symposium on Aquatic Toxicology and Hazard Assessment. (May 1986) New Orleans, LA.

Rodgers, J.H., T.F. Parkerton, E.E. Price, P.B. Dorn, and K.L. Dickson. 1986. Is Your Wastewater Really Toxic? – Assessing Sources of Variability in Bioassays. Presented at the 59th Annual Conference of The Water Pollution Control Federation. (October 1986) Los Angeles, CA.

Parkerton, T.F., S.M. Stewart, K.L. Dickson, J.H. Rodgers, Jr., and F.Y. Saleh. 1986. Application of Acute Toxicity Data for Deriving Site Specific Water Quality Criteria for Zinc in Three Texas Waters. Presented at the 59th Annual Conference of the Water Pollution Control Federation. (October 1986) Los Angeles, CA.

Price, E.E., J.H. Rodgers, Jr., K.L. Dickson, P.B. Dorn, and K. Jop. 1986. Influence of Ion Composition and Ionic Strength on Observed Effluent Toxicity. Presented at the 59th Annual Conference of the Water Pollution Control Federation. (October 1986) Los Angeles, CA.

Clifford, P.A., and J.H. Rodgers, Jr. 1986. Regrowth of *Myriophyllum spicatum* L. Harvested to Several Depths in a Texas reservoir. Presented at the 26th Annual Meeting of the Aquatic Plant Management Society, Inc. (July 13-16) Sarasota, FL.

Rocchio, P.M., and J.H. Rodgers, Jr. 1986. The Relative Effectiveness of 2,4-D and Endothall on *Myriophyllum heterophyllum*. Presented at the 26th Annual Meeting of the Aquatic Plant Management Society, Inc. (July 13-16) Sarasota, FL.

Rodgers, J.H., Jr., D.L. Robinson, C.L. Missimer, and J.F. Hall. 1986. Proximate Oxygen Demand of Three Aquatic Macrophytes: Use in Management of Aquatic Systems. Presented at

the 26th Annual Meeting of the Aquatic Plant Management Society, Inc. (July 13-16) Sarasota, FL.

Rodgers, J.H., Jr., and P.B. Dorn. 1986. Variability Associated With Identification of Toxics in NPEDS Effluent Bioassays. Presented at the 7th Annual Meeting of the Society of Environmental Toxicology and Chemistry. (November 2-5) Alexandria, VA.

Rodgers, J.H., Jr., 1986. Efforts Toward Development of an Aquatic Plant Management Concept for Pat Mayse Lake, Texas. 21st Annual Meeting Aquatic Plant Control Research Program of the U.S. Army Corps of Engineers. (Nov, 17-21) Mobile, AL.

Price, E.E., K.L. Dickson, and J.H. Rodgers, Jr. 1986. Effects of Excessive Calcium Concentration on (Na⁺ + K⁺) ATPase Activity of Two Euryhaline species, *Cvrorinondon variegatus* and *Mysidopsis bahia*. Presented at the 7th Annual Meeting of the Society of Environmental Toxicology and Chemistry. (November 2-5) Alexandria, VA.

Rocchio, P.M., and J.H. Rodgers, Jr. 1987. The Fate and Effects of Diquat and 2,4-D Amine in Laboratory Aquatic Systems. Eighth Annual Meeting of the Society of Environmental Toxicology and Chemistry. (Nov. 9-12) Pensacola, FL.

Parkerton, T.F., S.M. Stewart, K.L. Dickson, J.H. Rodgers, Jr., and F.Y Saleh. 1987. Derivation of Site Specific Criteria for Zinc: Implications for Wasteload Allocation. 8th Annual Meeting of the Society of Environmental Toxicology and Chemistry. (Nov. 9-12) Pensacola, FL.

Rodgers, J.H., Jr., and P.A. Clifford. 1987. A Coupled Herbicide Fate and Target Species' Effects Model. 22nd Annual Meeting of the Aquatic Plant Control Research Program of the U.S. Army Corps of Engineers. (Nov. 16-19) Portland, OR.

Rodgers, J.H., Jr. 1987. Management of Aquatic Plants in Texas Reservoirs. Southwest Regional Meeting of the North American Lake Management Society (July 27-28) Austin, TX.

Rodgers, J.H., Jr. 1987. Aquatic Plants as Sentinels of Environmental Health. 26th Annual Meeting of the Society of Toxicology (Feb. 24-27) Washington, D.C.

Hall, J.F. and J.H. Rodgers, Jr. 1987. Use of Environmental Fate Information in Selection of Herbicides for Aquatic Plant Management. 27th Annual Meeting of the Aquatic Plant Management Society. (July 12-15) Savannah, GA.

Cassidy, K.M. and J.H. Rodgers, Jr. 1987. Relationship Between Tissue Burden and Response of Hydrilla to Diquat. 27th Annual Meeting of the Aquatic Plant Management Society. (July 12-15) Savannah, GA. (Fourth Place in APMS Student Paper Contest).

Rocchio, P.M., and J.H. Rodgers, Jr. 1987. Comparative Study of the Fate and Effects of Diquat

and 2,4-D. 27th Annual Meeting of the Aquatic Plant Management Society. (July 12-15) Savannah, GA. (Second Place in APMS Student Paper Contest).

Clifford, P.A. and J.H. Rodgers, Jr. 1987. Application and Validation of the COE-WES HARVEST Model in Pat Mayse Lake. 27th Annual Meeting of the Aquatic Plant Management Society. (July 12-15) Savannah, GA.

Hall, J.F., T.F. Parkerton, J.H. Rodgers, Jr., and K.L. Dickson. 1987. Strategies for the Development of Sediment Quality Criteria: An Overview. South Central Chapter Meeting of the Society of Environmental Toxicology and Chemistry. (May 6, 1987) Houston, TX.

Dickson, K.L., J.H. Rodgers, Jr., T.M. Davis, M.E. McKeivitt, D.P. Wilcox, and K.A. Anderson. 1987. Use of *In Situ* Primary Productivity and Color Bioassays to Assess Papermill Impacts. American Society of Limnology and Oceanography Annual Meeting. (January 15) Madison, WI.

Rodgers, J.H., Jr., J.H. Kennedy, J.F. Hall and B.C. Suedel. 1988. Test Methods for Sediment Toxicity Using Freshwater organisms. The Coastal Society - Eleventh International Conference. (October 22-26) Boston, MA.

Rodgers, J.H., Jr. and P.A. Clifford. 1988. Validation of a Coupled Herbicide Fate and Effects Model: HERBICIDE. 23rd Annual Meeting of the Aquatic Plant Control Research Program of the U.S. Army Corps of Engineers. (Nov, 16-17) West Palm Beach, FL.

Suedel, B.C. and J.H. Rodgers, Jr. 1988. Sediment Characteristics as Potential Normalization Factors for the Bioavailability of Neutral Organic Compounds Sorbed to Sediments. Poster presented at the Ninth Annual Meeting of the Society of Environmental Toxicology and Chemistry. (November, 1988) Arlington, VA.

Suedel, B.C. and J.H. Rodgers, Jr. 1989. Sediment Quality Mediation of the Toxicity of Neutral Organic Compounds. Poster presented at the American Society for Testing and Materials, 13th Symposium on Aquatic Toxicology and Risk Assessment. (April 1989) Atlanta, GA.

Suedel, B.C., J.H. Rodgers, Jr. and P.A. Clifford. 1989. Use of Organic Carbon as a Normalization Factor for the Bioavailability of Neutral Organic Compounds Sorbed to Sediments. Poster presented at the Tenth Annual Meeting of the Society of Environmental Toxicology and Chemistry. (October, 1989) Toronto, Canada.

Suedel, B.C. and J.H. Rodgers, Jr. 1990. Sediment Characteristics That May Influence Aquatic Plant Distributions in the United States. Platform presentation at the 30th Annual Meeting of the Aquatic Plant Management Society. (July 17) Mobile, AL.

Suedel, B.C., J.H. Rodgers, Jr. and P.A. Clifford. 1990. Bioavailability of Fluoranthene in Freshwater Sediment Toxicity Tests. Platform presentation at the Eleventh Annual Meeting of

the Society of Environmental Toxicology and Chemistry. (November, 1990) Arlington, VA.

Rodgers, J.H., Jr. and P.A. Clifford. 1990. Effective use of Sonar-SRP in marginal treatments for control of *Myriophyllum spicatum*. Presented at the 30th Annual Meeting of the Aquatic Plant Management Society, Inc. (July 15-18) Mobile, AL.

Rodgers, J.H., Jr. 1990. Research on Aquatic Plant Effects on Water Quality and Fish. Presented at the 9th Annual Meeting of the Mid-South Aquatic Plant Management Society, Inc. (October 24-26) Eufaula, AL.

Hall, J.F. and J.H. Rodgers, Jr. 1990. Characterization of Toxicants in Contaminated Sediments. Presented at the Eleventh Annual Meeting of the Society of Environmental Toxicology and Chemistry. (November 11-15) Arlington, VA.

Rodgers, J.H., Jr. and J. Ackerman. 1990. Regulatory Issues and Future Data Requirements for Herbicide Registration for Aquatic Use. Presented at the 25th Annual Meeting of the Aquatic Plant Control Research Program. U.S. Army Corps of Engineers. (November 26-30) Orlando, FL.

Rodgers, J.H., Jr. 1990. Chemical Control Simulation for Aquatic Plant Management. Presented at the 25th Annual Meeting of the Aquatic Plant Control Research Program. U.S. Army Corps of Engineers. (November 26-30) Orlando, FL.

Suedel, B.C. and J.H. Rodgers, Jr. 1991. Fluoranthene Partitioning and Toxicity to *Hyaella azteca* in Freshwater Sediments. Presented at the 12th Annual Meeting of the Society of Environmental Toxicology and Chemistry. (November, 1991) Seattle, WA.

Giddings, J., J.H. Rodgers, Jr., R. Graney, T. La Point, R. Meyerhoff, S. Orenstein, and L. Touart. 1991. Conclusions of the SETAC Workshop on Microcosms for Ecological Assessment of Pesticides. Presented at the 12th Annual Meeting of the Society for Environmental Toxicology and Chemistry. (November, 1991) Seattle, WA.

Rodgers, J.H., Jr. and A.W. Dunn. 1991. Developing Guidelines for Constructed Wetlands to Remove Pesticides from Agricultural Runoff. Presented at the U.S. Environmental Protection Agency Symposium and Workshop on Developing Wetlands for the Use of Created and Natural Wetlands in Controlling Rural Nonpoint Source Pollution. (June 10-12) Arlington, VA.

Gendusa, T.C., T.L. Beitinger and J.H. Rodgers, Jr. 1991. Toxicity of Fluoranthene from Aqueous and Sediment Sources to *Pimephales promelas* and *Ictalurus punctatus*. Presented at the 12th Annual Meeting of the Society of Environmental Toxicology and Chemistry. (November 3-7) Seattle, WA.

Robison, R.H., A.W. Dunn and J.H. Rodgers, Jr. 1991. Partitioning and Persistence of Aquatic

Herbicides in Guntersville Reservoir, Alabama. Presented at the 12th Annual Meeting of the Society of Environmental Toxicology and Chemistry. November 3-7, 1991, Seattle, WA.

Dunn, A.W. and J.H. Rodgers, Jr. 1991. Partitioning and Persistence of Aquatic Herbicides In Guntersville Reservoir, Alabama. Presented at the 12th Annual Meeting of the Society of Environmental Toxicology and Chemistry. (November 3-7) Seattle, WA.

Witt, W.T. and J.H. Rodgers, Jr. 1991. Effects of Sediment Associated Hexavalent and Trivalent Chromium on *Daphnia magna*, *Hyalella azteca*, *Chironomus tentans*, and *Stylaria lacustris*. Presented at the 12th Annual Meeting of the Society of Environmental Toxicology and Chemistry. (November 3-7) Seattle, WA.

Brown, S.S., J.H. Rodgers, Jr., G.R. Gaston, A.P. McAllister, B.C. Suedel, A.W. Dunn and J.D. Mahony. 1992. Effects of Sediment-associated Copper on Stream Invertebrate Assemblages: Sediment Characteristics, Toxicity and Macrobenthos. Presented at the 13th Annual Meeting of the Society of Environmental Toxicology and Chemistry. (November 8-12) Cincinnati, OH.

Suedel, B.C. and John H. Rodgers, Jr. 1992. Development of Formulated Reference Sediments for Freshwater and Estuarine Sediment Toxicity Testing. Presented at the 13th Annual Meeting of the Society for Environmental Toxicology and Chemistry. (November 8-12) Cincinnati, OH.

Dunn, A.W., J.H. Rodgers, Jr., E. Burns and A.L. Bates. 1992. Fate and Persistence of Herbicides in Guntersville Reservoir, AL. Presented at the 13th Annual Meeting of the Society for Environmental Toxicology and Chemistry. (November 8-12) Cincinnati, OH.

Burres, R.E. and J.H. Rodgers, Jr. 1992. Measuring Responses of *Myriophyllum spicatum* to Fluoridone. Presented at the 13th Annual Meeting of the Society of Environmental Toxicology and Chemistry. November 8-12, 1992, Cincinnati, OH.

Fader, P.G., K. Pigot, and J.H. Rodgers, Jr. 1992. Cytoplasmic Ion Release From Aquatic Plants as an Indicator of Membrane Injury. Presented at the 13th Annual Meeting of the Society for Environmental Toxicology and Chemistry. (November 8-12) Cincinnati, OH.

Rodgers, J.H., Jr. 1992. Studies for Calibrating Fate/Effects Algorithms in HERBICIDE Version 2.0. Presented at the 27th Annual Meeting of the U.S. Army Engineers Waterways Experiment Station, Aquatic Plant Control Research Program. (November 16-19) Bellevue, WA.

Giddings, J.M. and J.H. Rodgers, Jr. 1992. Large Outdoor Microcosms for Ecological Assessment of Pesticides. Presented at the Second Symposium on Environmental Toxicology and Risk Assessment: Aquatic Plant and Terrestrial, American Society for Testing and Materials. (April 26-29) Pittsburgh, PA.

Crossland, N.O., P.G. Fader, E.R. Kline, J.H. Rodgers, Jr., and H.G. Walker. 1992. Development

of Model Streams Designed for Risk Assessments in Lotic Ecosystems. Presented at the Second Symposium on Environmental Toxicology and Risk Assessment: Aquatic Plant and Terrestrial, American Society for Testing and Materials. (April 26-29) Pittsburg, PA.

Rodgers, J.H., Jr. and A.W. Dunn. 1992. Utilization of Copper Based Herbicides in Aquatic Plant Management in Guntersville Reservoir. Presented at the 11th Annual Meeting of the Mid-South Aquatic Plant Management Society. (September 30-October 2) Guntersville, AL.

Dunn, A.W. and J.H. Rodgers, Jr. 1992. Partitioning and Persistence of Herbicides in the 1991 Guntersville Aquatic Plant Management Program. Presented at the 11th Annual Meeting of the Mid-South Aquatic Plant Management Society. (September 30-October 2) Guntersville, AL.

Rodgers, J.H., Jr. and A.W. Dunn. 1992. Using Constructed Wetlands for Pesticide Retention and Processing. Presented at the 9th Annual Meeting of the Soil and Water Conservation Society. (August 9-12) Baltimore, MD.

Crossland, N.O, P.G. Fader, E.R. Kline, J.H. Rodgers, Jr. and H.G. Walker. 1992. Model Streams Designed for Risk Assessments in Lotic Systems. Presented at the 13th Annual Meeting of the Society of Environmental Toxicology and Chemistry. (November 8-12) Cincinnati, OH.

Gillespie, B., J.H. Rodgers, Jr., N.O. Crossland and H.G. Walker. 1992. Evaluation of Parameters Used for Measuring Responses of Macroinvertebrate Assemblages in Model Streams. Presented at the 13th Annual Meeting of the Society of Environmental Toxicology and Chemistry. (November 8-12) Cincinnati, OH.

Rodgers, J.H., Jr. 1992. Herbicide Residue Studies. Presented at the 1992 Review Meeting of the Joint Agency, Guntersville Project. (April 22-23) Guntersville, AL.

Suedel, B.C. and John H. Rodgers, Jr. 1992. Formulated Reference Sediments for Freshwater and Estuarine Sediment Toxicity Testing. Presented at the American Society for Testing and Materials Sediment Toxicology Subcommittee Meeting (E47.03). (November 7) Cincinnati, OH.

Rodgers, J.H., Jr., N.O. Crossland, P.B. Dorn, S.T. Dubey and L.K. Kravetz. 1993. The Ecological Effects of a Nonionic Surfactant in Stream Mesocosms. Platform Presented at the 14th Annual Meeting of the Society of Environmental Toxicology and Chemistry. (November 1993) Houston, TX.

Rodgers, J.H., Jr., N.O. Crossland, E.R. Kline, W.B. Gillespie, Jr., R.A. Figueroa and P.B. Dorn. 1993. Design and Use of Model Stream Mesocosms for Aquatic Safety Assessments of Surfactants. Presented at the International Workshop on Environmental Fate and Effects of Surfactants. (September 13-15) Veldhoven, The Netherlands.

Gillespie, W.B., Jr., J.H. Rodgers, Jr., N.O. Crossland and P.B. Dorn. 1993. The Ecological

Effects of a Nonionic Surfactant on Macroinvertebrates in Model Stream Mesocosms. Poster Discussion presented at the 14th Annual Meeting of the Society of Environmental Toxicology and Chemistry. (November, 1993) Houston, TX.

Figueroa, R.A., E.R. Kline, J.H. Rodgers, Jr. and P.B. Dorn. 1993. The Responses of Fish Exposed to a Nonionic Surfactant in Stream Mesocosms. Poster Discussion presented at the 14th Annual Meeting of the Society of Environmental Toxicology and Chemistry. (November, 1993) Houston, TX.

Deaver, E., B.C. Suedel and J.H. Rodgers, Jr. 1993. Copper Sulfate as a Reference Toxicant for Use in Sediment Toxicity Tests. Poster Discussion presented at the 14th Annual Meeting of the Society of Environmental Toxicology and Chemistry. (November, 1993) Houston, TX.

Suedel, B.C., E. Deaver and J.H. Rodgers, Jr. 1993. Reducing Uncertainty in Sediment Toxicity Tests. Platform presentation at the 14th Annual Meeting of the Society of Environmental Toxicology and Chemistry. November, 1993, Houston, TX.

Rodgers, J.H. Jr., E. Deaver, B.C. Suedel and P.L. Rogers. 1993. A Tiered Research Strategy for Evaluation of Silver Bioavailability in Aquatic Systems. Presented at the First International Conference on the Transport, Fate and Effects of Silver in the Environment. Madison, WI.

Suedel, B.C. and J.H. Rodgers, Jr. 1993. Formulated Reference Sediments for Freshwater and Estuarine Toxicity Testing. Presented at the American Society for Testing and Materials Third Symposium on Environmental Toxicology and Risk Assessment: Aquatic, Plant and Terrestrial. (April, 1993) Atlanta, GA.

Rodgers, J.H., Jr., E. Deaver and P. Rogers. 1994. Evaluation of the Bioavailability and Toxicity of Silver in Sediment. Presented at the Second International Conference on Transport, Fate and Effects of Silver in the Environment. (September 11-14) Madison, WI.

Rodgers, J.H., Jr., P.L. Rogers, N. Kaul and E. Deaver. 1994. Silver Toxicity: Fact and Fiction. Presented at the Third Pollution Prevention for Silver Imaging Systems Seminar. National Association of Photographic Manufacturers. (May 11-14) Lake Buena Vista, FL.

Rodgers, J.H., Jr., P.L. Rogers and E. Deaver. 1994. Responses of Aquatic Invertebrates to Silver Compounds. Platform presentation at the 15th Annual Meeting of the Society of Environmental Toxicology and Chemistry. (October 30 – November 3) Denver, CO.

Figueroa, R.A., J.H. Rodgers, Jr., R.E. Lizotte and P.B. Dorn. 1994. Responses of Fish Exposed to Nonionic Surfactants in Stream Mesocosms. Poster presented at the 15th Annual Meeting of the Society of Environmental Toxicology and Chemistry. (October 30 - November 3) Denver, CO.

Gillespie, W.B., Jr., J.H. Rodgers, Jr. and P.B. Dorn. 1994. Responses of Aquatic Invertebrates to a Nonionic Surfactant in Laboratory and Model Stream Mesocosm Exposure. Poster presented at the 15th Annual Meeting of the Society of Environmental Toxicology and Chemistry. (October 30 - November 3) Denver, CO.

Rodgers, J.H., Jr., P.B. Dorn, S.T. Dubey, W.B. Gillespie, Jr. and R.A. Figueroa. 1994. Comparative Ecological Effects of Two Homologous Nonionic Surfactants in Stream Mesocosms. Poster presented at the 15th Annual Meeting of the Society of Environmental Toxicology and Chemistry. (October 30 - November 3) Denver, CO.

Dunn, A.W. and John H. Rodgers, Jr. 1994. Uptake of Triclopyr by Eurasian Watermilfoil (*Myriophyllum spicatum*) Under Different Exposure Conditions. Poster presented at the 15th Annual Meeting of the Society of Environmental Toxicology and Chemistry. (October 30 - November 3) Denver, CO.

Dorn, P.B., N.R. Vergel, W.B. Hawkins, A.W. Dunn and J.H. Rodgers, Jr. 1994. Design of Pilot-scale Constructed Wetlands for Tertiary Treatment of Refinery Effluent. Poster presented at the 15th Annual Meeting of the Society of Environmental Toxicology and Chemistry. (October 30 - November 3) Denver, CO.

Deaver, E. and J.H. Rodgers, Jr. 1994. Evaluations of Bioavailable Copper in Amended Wetland Sediments. Poster presented at the 15th Annual Meeting of the Society of Environmental Toxicology and Chemistry. (October 30 - November 3) Denver, CO.

Deaver, E. and J.H. Rodgers, Jr. 1994. Analysis of Copper in Aqueous Systems. Presented at the Annual Meeting of the Aquatic Plant Management Society. (July 10-13) San Antonio, TX.

Deaver, E. and J.H. Rodgers, Jr. 1994. Analysis of Copper in Aqueous Systems. Presented at the Annual Meeting of the South Carolina Aquatic Plant Management Society. (August, 1994) Columbia, SC.

Deaver, E. and J.H. Rodgers, Jr. 1994. Analysis of Bioavailable Copper in Amended Wetland Sediments. Presented at the Annual Meeting of the Agronomy Society of America. (November 12-17) Seattle, WA.

Deaver, E. and J.H. Rodgers, Jr. 1994. Analysis of Copper in Aqueous Systems. Presented at the Annual Meeting of the Mid-South Aquatic Plant Management Society. (October, 1994) Birmingham, AL.

Rodgers, J.H., Jr. 1994. Current Research Activities at the University of Mississippi's Biological Field Station and Center for Water and Wetland Resources. Presented to the Annual Meeting of the Mid-South Aquatic Plant Management Society. (October, 1994) Birmingham, AL.

Rodgers, J.H., Jr., W.B. Hawkins, A.W. Dunn and T.L. Deardorff. 1994. An Evaluation of Potential Impacts of Bleached Kraft Mill Effluents on the Lower Sulphur River, Texas- Arkansas. Presented at the Second International Conference on Environmental Fate and Effects of Bleached Pulp Mill Effluents. (November 6-9) Vancouver, B.C.

Rodgers, J.H., Jr. 1995. Use of Copper for Aquatic Plant Management. Presented at the 14th Annual Meeting of the Mid-South Aquatic Plant Management Society. (October 11-13) Sheffield, AL.

Deaver, E. and J.H. Rodgers, Jr. 1995. Measuring Bioavailable Copper Using Anodic Stripping Voltammetry. Presented at the 14th Annual Meeting of the Mid-South Aquatic Plant Management Society. (October 11-13) Sheffield, AL.

Rodgers, J.H., Jr. and A.W. Dunn. 1995. Constructed Wetlands Integratively Designed for Transfer and Transformation of Copper, Lead and Zinc. Presented at the 14th Annual Meeting of the Mid-South Aquatic Plant Management Society. (October 11-13) Sheffield, AL.

Hawkins, W.B. and J.H. Rodgers, Jr. 1995. Utilization of *Scirpus californicus* [(C.A. Meyer) Steud.] in Constructed Wetlands. Presented at the 14th Annual Meeting of the Mid-South Aquatic Plant Management Society. (October 11-13) Sheffield, AL.

Lizotte, R.E., J.H. Rodgers, Jr., P.B. Dorn, S.T. Dubey, W.B. Gillespie, Jr. and R.A. Figueroa. 1995. Comparative Ecological Effects of Two Homologous Nonionic Surfactants in Stream Mesocosms. Sigma Xi, The University of Mississippi Chapter and Office of Research/Graduate/Undergraduate Student Poster Symposium.

Deaver, E. and J.H. Rodgers, Jr. 1995. Investigations of Copper Speciation and Bioavailability. Presented at the 16th Annual Meeting and Second World Congress of the Society of Environmental Toxicology and Chemistry. (November 5-9) Vancouver, B.C.

Hawkins, W.B., A.W. Dunn, J.H. Rodgers, Jr. and P.B. Dorn. 1995. Pilot-scale Constructed Wetlands for Tertiary Treatment of Refinery Effluent. Presented at the 16th Annual Meeting and Second World Congress of the Society of Environmental Toxicology and Chemistry. (November 5-9) Vancouver, B.C.

Gillespie, W.B., Jr., J.H. Rodgers, Jr., P.B. Dorn and S.T. Dubey. 1995. Responses of Aquatic Invertebrates to Three Homologous Nonionic Surfactants in Model Stream Mesocosm Exposures. Presented at the 16th Annual Meeting and Second World Congress of the Society of Environmental Toxicology and Chemistry. (November 5-9) Vancouver, B.C.

Dunn, A.W. and J.H. Rodgers, Jr. 1995. Responses of a Submerged Aquatic Plant and Periphyton to a Nonionic Surfactant in Model Stream Mesocosm Exposures. Presented at the 16th Annual Meeting and Second World Congress of the Society of Environmental Toxicology

and Chemistry. (November 5-9) Vancouver, B.C.

Rodgers, J.H., Jr., P.B. Dorn, W.B. Gillespie, Jr. and S.T. Dubey. 1995. Effects of Three Homologous Nonionic Surfactants in Model Stream Mesocosm Exposures. Presented at the 16th Annual Meeting and Second World Congress of the Society of Environmental Toxicology and Chemistry. (November 5-9) Vancouver, B.C.

Lizotte, R.E., Jr., J.H. Rodgers, Jr., P.B. Dorn and S.T. Dubey. 1995. Effects of Three Homologous Nonionic Surfactants on Fish in Stream Mesocosms. Presented at the 16th Annual Meeting and Second World Congress of the Society of Environmental Toxicology and Chemistry. (November 5-9) Vancouver, B.C.

Rodgers, J.H., Jr., E. Deaver and P.L. Rogers. 1995. Partitioning and Effects of Silver in Amended Freshwater Sediments. Presented at the Third International Conference on Transport, Fate and Effects of Silver in the Environment. (August 6-9) Washington, D.C.

Deardorff, T.L., J.H. Rodgers, Jr., D.P. Felder, and S.J. D'Surney. 1998. A multifaceted investigation of the aquatic ecosystems near a bleached and unbleached kraft mill. Presented at the Third International Symposium on Aquatic Impacts of Pulp and Paper Mills, Nov. 1998. New Zealand.

Mastin, B.J. and Rodgers, J.H., Jr. 1998. Toxicity and bioavailability of copper herbicides (Clearigate®, Cutrine®-Plus, and copper sulfate) to freshwater animals. 19th Annual meeting, Society of Environmental Toxicology and Chemistry, Nov., Charlotte, NC. p.212.

Moore, M.T., W.B. Gillespie, Jr., and J.H. Rodgers, Jr. 1998. Constructed wetlands to mitigate agricultural pesticide runoff. 19th Annual Meeting, Society of Environmental Toxicology and Chemistry, Nov., Charlotte, NC. p.284.

Mastin, B.J. and Rodgers, J.H., Jr. 1998. Characterization and assessment of *Lyngbya*-dominated cyanobacteria "blooms" in the SB-1 Reservoir Springhill, Louisiana. Biology Department University of Mississippi.

Maciorowski, A.F., Reinert, K., and Rodgers, J.H., Jr. 1998. Ethics in Ecological Risk Assessment: An Overview. publ. abstr. 19th annual meeting Society of Environmental Toxicology and Chemistry, Nov. Charlotte, NC.

Bohannon, A.L., Moore, M.T., Cooper, M., and Rodgers, J.H. Jr. 1998. Effects of Chlorpyrifos on Macroinvertebrates in Constructed Wetlands. Publ. abstr. 19th annual meeting Society of Environmental Toxicology and Chemistry. Nov. Charlotte, NC.

Dorn, P.B., Tattersfield, L.J., Raney, K.H., and Rodgers, J.H. Jr. 1998. Development of Effects Data for Alcohol Ethoxylate Surfactants using Stream Mesocosms. Publ. abstr. 19th annual

meeting Society of Environmental Toxicology and Chemistry. Nov. Charlotte, NC. p. 175.

Huggett, D.B., Muller, S.L., Bohannon, A.L., and Rodgers, J.H.Jr., Adams, D.L., Deardorff, T.L. 1998. Toxicity Assessment of Historically Contaminated Sediments. Publ. abstr. 19th annual meeting Society of Environmental Toxicology and Chemistry. Nov. Charlotte, NC. p.209.

Mastin, B.J., and Rodgers, J.H., Jr. 1998. Toxicity and Bioavailability of Chelated-Copper Herbicides Clearigate®, Cutrine®-Plus and Copper Sulfate. Publ. abstr. 19th annual meeting Society of Environmental Toxicology and Chemistry. Nov. Charlotte, NC. p.212.

Rodgers, J.H., Jr., Fisher, R.P., and Festa, J.L. 1998. Development of a North American research strategy to assess potential reproductive effects of pulp mill effluents on fish-focus on hormone-mediated effects and assessment. Publ. abstr. 19th annual meeting Society of Environmental Toxicology and Chemistry. Nov. Charlotte, NC. p. 233

Gillespie, W.B. Jr., Rodgers, J.H., Jr., Cooper, C.M., and Smith S. 1998. Constructed Wetlands to Mitigate Agricultural Pesticide Runoff. Publ. abstr. 19th annual meeting Society of Environmental Toxicology and Chemistry. Nov. Charlotte, NC. p. 284.

Huddleston, G.M. III, Gillespie, W.B., Jr., Rodgers, J.H., Jr. 1998. Abatement of Ammonia and Biochemical Oxygen Demand in a Petroleum Refinery Effluent Using Constructed Wetlands. Publ. abstr. 19th annual meeting Society of Environmental Toxicology and Chemistry. Nov. Charlotte, NC. p. 284.

Muller, S.L., Huggett, D.B., Rodgers, J.H., Jr. 1998. Effects of Copper Sulfate on *Typha latifolia* Seed Germination and Early Seedling Growth in Aqueous and Sediment Exposures. Publ. abstr. 19th annual meeting Society of Environmental Toxicology and Chemistry. Nov. Charlotte, NC. p. 287.

Moore, M.T., S. Smith, Jr., and C.M. Cooper. 1999. Comparative mitigation of chlorpyrifos, atrazine, and metachlor-associated runoff using constructed wetlands. Presented at the 20th Annual Meeting of the Society of Environmental Toxicology and Chemistry. Philadelphia, PA, 14-18 November 1999. p.102.

Bohannon, A.L., M.T. Moore, and J.H. Rodgers, Jr. 1999. Evaluation of bench-scale constructed wetland microcosms for potential tertiary treatment of produced water from a petroleum refinery. Presented at the 20th Annual Meeting of the Society of Environmental Toxicology and Chemistry. Philadelphia, PA, 14-18 November 1999. p..271.

Huddleston, G.M., A.L. Schwartzman, and J.H. Rodgers, Jr. 1999. Risk mitigation of a complex effluent using constructed wetlands. Presented at the 20th Annual Meeting of the Society of Environmental Toxicology and Chemistry. Philadelphia, PA, 14-18 November 1999. p..272.

Mastin, B.J., J.H. Rodgers, Jr. and T.L. Deardorff. 1999. Risk assessment of cyanobacteria-dominated algal “blooms” in a north Louisiana reservoir. Presented at the 20th Annual Meeting of the Society of Environmental Toxicology and Chemistry. Philadelphia, PA, 14-18 November 1999. p.284.

Huddleston, G.M., J.H. Rodgers, Jr., D.B. Huggett, M.T. Moore, and C.M. Cooper. 1999. Herbicide effects on *Typha latifolia* (Linnaeus) germination and root and shoot development. Presented at the 20th Annual Meeting of the Society of Environmental Toxicology and Chemistry. Philadelphia, PA, 14-18 November 1999. p. 158.

Schwartzman, A.L., B.J. Mastin, and J.H. Rodgers, Jr. 1999. The role of plants for influencing redox potential in the root zone in different hydrosols. Presented at the 20th Annual Meeting of the Society of Environmental Toxicology and Chemistry. Philadelphia, PA, 14-18 November 1999. p. 158.

Winfield, L.E., J.H. Rodgers, Jr., S.J. D’Surney and C.R. Lee. 1999. Phytotoxicity of RDX Exposure (<12 days) to selected terrestrial plants. Presented at the 20th Annual Meeting of the Society of Environmental Toxicology and Chemistry. Philadelphia, PA, 14-18 November 1999. p.. 158.

Huddleston, G.M., J.H. Rodgers, Jr., B.J. Mastin, S.E. Woods and D. McHenry. 1999. Macroinvertebrate survey of the Tenn-Tom Waterway in the vicinity of a pulp and paper effluent discharge: Factors influencing rapid bioassessment interpretation. Presented at the 20th Annual Meeting of the Society of Environmental Toxicology and Chemistry. Philadelphia, PA, 14-18 November 1999. p. 245.

Rodgers, Jr., J.H. 1999. Risk assessment of herbicides for aquatic use. Presented at the 18th Annual Meeting of the Midsouth Aquatic Plant Management Society. Gulf Shores, AL, 20-22 October 1999.

Rodgers, Jr., J.H. 1999. Risk assessment of herbicides for aquatic use. (Keynote Address) Presented at the Annual Meeting of the South Carolina Aquatic Plant Management Society. Columbia, SC, 12-13 August 1999.

Rodgers, Jr., J.H. 1999. Environmental toxicology and ecotoxicology. Presented at a workshop on Partners in Scientific Collaboration. Oak Ridge National Laboratory, Oak Ridge, TN, 18-19 August 1999. Sponsored by AAAS, NSF, U.S. DOE and ORNL.

Huddleston, G.M., III, Mastin, B.J., Rodgers, J.H., Jr., Woock, S.E., McHenry, D. 1999. Macroinvertebrate survey of the Tennessee-Tombigbee Waterway in the vicinity of a pulp and paper effluent discharge: factors influencing rapid bioassessment interpretation. Annual Meeting, Society of Environmental Toxicology and Chemistry., Philadelphia, PA.

Rodgers, J.H., Jr. 1999. Toxic effects of forest herbicides on aquatic organisms. Presented at the Symposium Pesticides and the Forest Environment. April 13-15, 1999 Nacogdoches, Texas.

Rodgers, J.H., Jr. 1999. SETAC-US EPA. WET Initiatives: All WET and Nothing but WET. Presented at Air and Waste Management Association Environmental Permitting Symposium (February 17-19, 1999), Research Triangle Park, NC.

Winfield, L.E., Lee, C.R., Rodgers, J.H., Jr., and D'Surney, S.J. 1999. Effects of short-term exposure to RDX amended mollisols in wild/cover plants. Poster presentation. Annual Meeting Soc. of Toxicology. March 1999. New Orleans, LA.

Winfield, L.E., D'Surney, S.J., Rodgers, J.H., Jr., and Lee, C.R. 1999. Phytotoxicity of RDX exposure (<12 days) to selected terrestrial plants. Poster presentation. 20th Annual Meeting of Society of Environmental Toxicology and Chemistry. Nov 1999. Philadelphia, PA.

Huddleston, G.M., Rodgers, J.H., Jr., Huggett, D.B., Moore, M.T., and Cooper, C.M. 1999. Herbicide Effects on *Typha latifolia* (Linnaeus) Germination and Root and Shoot Development. Publ. abstr. 20th annual meeting Society of Environmental Toxicology and Chemistry. Nov. Philadelphia, PA.

Winfield, L.E., Rodgers, J.H. Jr., D'Surney, S.J., and Lee, C.R. 1999. Phytotoxicity of RDX Exposure (<12 days) to Selected Terrestrial Plants. Publ. abstr. 20th annual meeting Society of Environmental Toxicology and Chemistry. Nov. Philadelphia, PA.

Ausley, L.W., D.T. Burton, D.L. Denton, P.B. Dorn, W.L. Goodfellow, Jr., J.R. Gully, T.J. Norberg-King, J.H. Rodgers Jr., and W.T. Waller. 2000. Watershed Management: Historical Perspective for the Future. Society of Environmental Toxicology and Chemistry, Nashville, TN. November 12-16, 2000 (Platform). p. 29.

Huddleston, III, G.M., A.L. Schwartzman, and J.H. Rodgers, Jr. 2000. Constructed Wetland Design for Decreasing Copper Bioavailability Associated with an Aqueous Matrix. Society of Environmental Toxicology and Chemistry, Nashville, TN. November 12-16, 2000 (Poster). p. 283.

Mastin, B.J. and J.H. Rodgers, Jr. 2000. Design and Performance of Constructed Wetlands for Treatment of Petroleum in an Aqueous Matrix. Society of Environmental Toxicology and Chemistry, Nashville, TN. November 12-16, 2000 (Poster). p. 284.

Murray-Gulde, C.L., J.E. Heatley, J.H. Rodgers, Jr., J.E. Myers, and J.F. Hall. 2000. Design of a Pilot-Scale Constructed Wetland Treatment System for Oilfield Produced Waters. Carolina Regional of Society of Environmental Toxicology and Chemistry, Wilmington, NC. March 31-April 1, 2000 (Poster). p. 284.

Rodgers, Jr., J.H., M.T. Moore, C.M. Copper, and S. Smith, Jr. 2000. Constructed Wetlands for Mitigation of Risks from Golf Course Runoff. Society of Environmental Toxicology and Chemistry, Nashville, TN. November 12-16, 2000 (Poster). p. 191.

Schwartzman, A.L., G.M. Huddleston, III, and J.H. Rodgers, Jr. 2000. The Role of *Scirpus californicus* (Giant Bulrush) in Constructed Wetlands for Remediation of Copper-Contaminated Wastewater. Society of Environmental Toxicology and Chemistry, Nashville, TN. November 12-16, 2000 (Poster). p.283.

Sherrard, R.M. and J.H. Rodgers, Jr. 2000. Design of Constructed Wetland Anaerobic Reactors for Treatment of Trichloroethylene and Perchloroethylene. Society of Environmental Toxicology and Chemistry, Nashville, TN. November 12-16, 2000 (Poster). p. 284.

Sherrard, R.M. and J.H. Rodgers, Jr. 2000. Design of Constructed Wetland Anaerobic Reactors for Treatment of Trichloroethylene. Carolina Regional Meeting of Society of Environmental Toxicology and Chemistry, Wilmington, NC. March 31-April 1, 2000 (Poster).

Winfield, L., S. D'Surney, C. Lee, and J.H. Rodgers, Jr. 2000. A Comparison of the Responses of Agronomic and Wild/Cover Plants to RDX Amended Grenada and Bowdry Soils. Society of Environmental Toxicology and Chemistry, Nashville, TN. November 12-16, 2000 (Poster). p. 236.

Winfield, L., J.H. Rodgers, Jr., C.Lee, S. D'Surney, and D. Brandon. 2000. The Phytotoxicity and Bioaccumulation of RDX by Sunflower (*Helianthus annuus* L.) Plants. Society of Environmental Toxicology and Chemistry, Nashville, TN. November 12-16, 2000 (Poster). p. 236.

Rodgers JH Jr., and Myers JE. 2001. Treatment wetlands as sustainable technology for water treatment: fundamentals. Presented at the 5th International Congress on Health, Safety, and Environment (COSSMAP): Panama City, Panama; July 11-14, 2001.

Rodgers JH Jr. 2001. Treatment wetlands as sustainable technology for water treatment: domestic wastewater. Presented at the 5th International Congress on Health, Safety, and Environment (COSSMAP): Panama City, Panama; July 11-14, 2001.

Rodgers JH Jr. 2001. Treatment wetlands as sustainable technology for water treatment: stormwater. Presented at the 5th International Congress on Health, Safety, and Environment (COSSMAP): Panama City, Panama; July 11-14, 2001.

Rodgers, JH Jr. 2001. Environmental research at Clemson University and opportunities for collaboration. Presented at Universidad Catolica Santa Maria La Antigua, El Dorado, Panama; July 13, 2001.

Mastin, B.J., J.H. Rodgers, Jr. and Y.T. Shah. 2001. Hybrid cavitation/ constructed wetland reactors for treatment of chlorinated and non-chlorinated organics. *Chemical Engineering Tech*

24(8): 97A-105A.

Winfield, L.E., D'Surney, S.J. and Rodgers, J.H., Jr. 2001. The response of terrestrial plants to hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) exposures: Part 1- Short-term (<12 days) exposures using cover plants. Submitted to J. of Ecotoxicology.

Winfield, L.E., Rodgers, J.H., Jr., and D'Surney, S.J. 2001. The response of terrestrial plants to hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) exposures: Part II- Short-term (<12 days) exposure using five crop plants. Submitted to J. of Ecotoxicology.

Winfield, L.E., D'Surney, S.J. and Rodgers, J.H., Jr. 2001. The response of sunflower (*Helianthus annuus L.*) plants long-term (2,4, and 6 weeks) Hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) exposures: Part III-Growth responses of two life stages. Submitted to J. of Ecotoxicology.

Winfield, L.E., Rodgers, J.H., Jr., and D'Surney, S.J. 2001. The response of two life stages of sunflower (*Helianthus annuus L.*) plant to long-term (2,4, and 6 weeks) RDX exposure: Part IV- Bioconcentration and phytotoxic responses. Submitted to J. of Ecotoxicology.

Winfield, L.E., D'Surney, S.J., and Rodgers, J.H., Jr. 2001. The response of terrestrial plants to short-term hexahydro-1,3,5-trinitro-1,3,5-triazine (RDX) exposure. Accepted for publication in Proceedings, Conference on Sustainability of Wetlands and Water Resources. Center for Water and Wetland Resources at the Univ. of MS Biology Field Station. University, MS.

Winfield, L., S. D'Surney and J.H. Rodgers, Jr. 2001. Development of a short-term screening method to assess RDX Bioavailability and phytotoxicity. Presented at the 22nd Annual Meeting of the Society of Environmental Toxicology and Chemistry. 11-15 November 2001, Baltimore.

Rodgers, J.H., Jr., L.W. Ausley, D. Burton, D.L. Denton, P.B. Dorn, W. L. Goodfellow, J. Gully, T.J. Norberg-King, and W.T. Waller. 2001 TMDL's: After point sources, what can we do next? Presented at the 22nd Annual Meeting of the Society of Environmental Toxicology and Chemistry. 11-15 November 2001, Baltimore. P. 59.

Johnson, A.R., and J.H. Rodgers, Jr. 2001. Scaling in Ecotoxicity: theory, evidence and research needs. Presented at the 22nd Annual Meeting of the Society of Environmental Toxicology and Chemistry. 11-15 November 2001, Baltimore. P. 84.

Mastin, B.J., G.M. Huddleston and J.H. Rodgers, Jr. 2001. Partitioning of copper to *Scirpus californicus* organic matter: effects on toxicity to *Ceriodaphnia dubia*. Presented at the 22nd Annual Meeting of the Society of Environmental Toxicology and Chemistry. 11-15 November 2001, Baltimore. P. 157.

Murray-Gulde, C.L., J.E. Heatley, A.L. Schwartzman and J.H. Rodgers, Jr. 2001. Toxicity of

Clearigate, Cutrine-Plus and Copper Sulfate to *Raphidocelis subcapitata*, *Ceriodaphnia dubia* and *Pimephales promelas*. Presented at the 22nd Annual Meeting of the Society of Environmental Toxicology and Chemistry. 11-15 November 2001, Baltimore. p. 206.

Sherrard, R.M. C.L. Murray-Gulde, and J.H. Rodgers, Jr. 2001. Comparative toxicity of chlorothalonil and chlorpyrifos: *Ceriodaphnia dubia* and *Pimephales promelas*. Presented at the 22nd Annual Meeting of the Society of Environmental Toxicology and Chemistry. 11-15 November 2001, Baltimore. P. 338.

Mastin, B.J., Rodgers, J.H., Jr. 2001. Design and performance of constructed wetlands for treatment of stormwater. *Constructed Wetlands for Water Quality Improvement*, Clemson University, Departments of Plant Pathology and Physiology, and Department of Industrial Engineering.

Mastin, B.J. Rodgers, J.H., Jr., Deardorff, T.L. 2001. Risk evaluation of cyanobacterial-dominated algal blooms in a North Louisiana reservoir. Annual meeting Society of Environmental Toxicology and Chemistry, Carolinas Chapter.

Mastin, B.J., Huddleston, G.M. III, Rodgers, J.H., Jr. 2001. Partitioning of copper to *Scirpus californicus* organic matter: Effects on toxicity to *Ceriodaphnia dubia*. Presented at the 22nd Annual Meeting of the Society of Environmental Toxicology and Chemistry. 11-15 November 2001, Baltimore.

Rodgers, J.H. Jr. 2001. Strategies for Risk Characterizations of Contaminated Sediments. Invited speaker. Conférence De Prestige Cirtox. Centre interuniversitaire de recherche en toxicologie (CIRTOX). Université de Montréal. May 31, 2001. (invited plenary lecture)

Winfield, L.E., D.Surney, S.J. and Rodgers, J.H., Jr. 2001. Development of a short-term method to assess RDX bioavailability and phytotoxicity. Accepted for presentation during 22nd Annual Meeting of Society of Environmental Toxicology and Chemistry. Nov. 2001. Baltimore, MD.

Winfield, L.E., D'Surney, S.J., and Rodgers, J.H., Jr. 2001. The growth response of selected terrestrial plants to RDX exposure. Invited speaker for special symposium. Annual Meeting of the American Phytopathology Society. Aug. 2001. Salt Lake City, UT.

Murray-Gulde, C., Heatley, J.E., Karanfil, T., Rodgers, Jr., J.H. and Myers, J.E. (in press). Performance of a Hybrid Reverse Osmosis-Constructed Wetland Treatment System for Brackish Produced Water. *Water Research*

Rodgers, J.H., Jr. 2002. Case Study: A TMDL for copper. Presented at the 23rd Annual Meeting of the Society of Environmental Toxicology and Chemistry. Nov., 2002, Salt Lake City, UT.

Rodgers, J.H., Jr., J.E. Heatley, and C.L. Murray-Gulde. 2002. Toxicity of five copper-containing

algaeicides to selected algae and animal species. Presented at the 23rd Annual Meeting of the Society of Environmental Toxicology and Chemistry. Nov., 2002, Salt Lake City, UT.

Murray-Gulde, C.L., J. Bearn, J. Gallagher, J. Heatley, G.M. Huddleston III, and J.H. Rodgers, Jr. 2002. Design and evaluation of a constructed wetland treatment system for decreasing the concentration and bioavailability of copper in a wastestream. Presented at the 23rd Annual Meeting of the Society of Environmental Toxicology and Chemistry. Nov., 2002, Salt Lake City, UT.

Mastin, B.J. and J.H. Rodgers, Jr. 2002. Discerning toxic fractions of crankcase oil and diagnostic responses of freshwater testing organisms. Presented at the 23rd Annual Meeting of the Society of Environmental Toxicology and Chemistry. Nov., 2002, Salt Lake City, UT.

Murray-Gulde, C.L., G.M. Huddleston III, and J. H. Rodgers, Jr. 2002. Comparison of a microcosm-scale and full-scale constructed wetland treatment system designed to treat a copper-contaminated wastewater. Presented at the 23rd Annual Meeting of the Society of Environmental Toxicology and Chemistry. Nov., 2002, Salt Lake City, UT.

Murray-Gulde, C.L. and J.H. Rodgers, Jr. 2002. Contributions of *Scirpus californicus* in a constructed wetland system receiving copper contaminated wastewater. Presented at the 23rd Annual Meeting of the Society of Environmental Toxicology and Chemistry. Nov., 2002, Salt Lake City, UT.

Gallagher, J.S., G.M. Huddleston III, and J.H. Rodgers, Jr. 2002. Toxicity of lake sediments to *Hyalella azteca* Sausure and *Ceriodaphnia dubia* Richard following copper-herbicide applications. Presented at the 23rd Annual Meeting of the Society of Environmental Toxicology and Chemistry. Nov., 2002, Salt Lake City, UT.

Johnson, A.R. and J.H. Rodgers, Jr. 2003. Scaling in ecotoxicology: theory, evidence and research needs. Presented at the 7th International Conference on Aquatic Ecosystem Health and Management Society, Sep., 2003. Lyon, France.

Huddleston, G.M., J.C. Arrington, and J.H. Rodgers, Jr. 2003. Winter removal of BOD and solids from an industrial effluent using constructed wetlands. Presented at the 24th Annual Meeting of the Society of Environmental Toxicology and Chemistry. Nov., 2003, Austin, TX.

Garber, K.V., J.S. Gallagher, J.H. Rodgers, Jr., and A.R. Johnson. 2003. Measuring and modeling changes over time of fecal coliform densities in aquatic systems. Presented at the 24th Annual Meeting of the Society of Environmental Toxicology and Chemistry. Nov., 2003, Austin, TX.

Stag, C.L. and J.H. Rodgers, Jr. 2003. Identification of toxic fractions of a formulated produced water and diagnostic responses of *Ceriodaphnia dubia*. Presented at the 24th Annual Meeting of

the Society of Environmental Toxicology and Chemistry. Nov., 2003, Austin, TX.

Duke, B.M., and J.H. Rodgers, Jr. 2003. Comparative toxicity of a copper containing algaecide to four algal species. Presented at the 24th Annual Meeting of the Society of Environmental Toxicology and Chemistry. Nov., 2003, Austin, TX.

Gallagher, J.S., K.V. Garber and J. H. Rodgers, Jr. 2003. Mitigating risks of domestic wastewater using model constructed wetlands: Influence of HRT and loading. Presented at the 24th Annual Meeting of the Society of Environmental Toxicology and Chemistry. Nov., 2003, Austin, TX.

Rodgers, J.H., Jr. 2003. After the TMDL, what do we do? Presented at the TMDL Short Course at the 24th Annual Meeting of the Society of Environmental Toxicology and Chemistry. Nov., 2003, Austin, TX.

Rodgers, J.H., Jr., C.L. Murray-Gulde and G.M. Huddleston, III. 2003. Expanding functional roles of vascular aquatic plants: *Schoenoplectus californicus* as an example. Presented at the 43rd Annual Meeting of the Aquatic Plant Management Society, July, 2003. Portland, Maine.

Rodgers, J.H., Jr. 2003. Role of *Schoenoplectus californicus* in constructed wetlands for treatment of metals at Savannah River Site. Presented at the Annual Review Meeting of the USDA/ARS Jimmy carter Plant Materials Center. June, 2003. Americus, GA.

Rodgers, J.H., Jr. 2003. Using copper containing algacides and herbicides in aquatic systems. Presented at the Annual Meeting of the Mid-West Aquatic Plant Management Society. March, 2003. Columbus, OH.

Rodgers, J.H., Jr. and J. Thomas. 2003. Evaluation of the fate and effects of pulp and paper mill effluents from a watershed multistressor perspective: Progress to date and future opportunities. Presented at the 5th International Conference on the Fate and Effects of Pulp and Paper Mill Effluents and the 7th International Water Association Symposium on Forest industry Wastewaters. June, 2003. Seattle, WA.

Rodgers, J.H., Jr. 2003. Expanding functional roles for *Schoenoplectus californicus* in constructed wetlands for treating metals. Presented (invited) at the Annual Meeting of the South Carolina Aquatic Plant Management Society. August, 2003. Monks Corner, SC.

Rodgers, J.H., Jr. 2003. *Schoenoplectus californicus*: Expanding role in constructed wetlands for treating metals. Presented at the Annual Meeting of the MidSouth Aquatic Plant Management Society. Oct. 2003. Auburn University, AL.

Johnson, B.M., L.E. Ober, J.W. Castle, and J.H. Rodgers, Jr. 2005. Treating Natural Gas Storage Produced Waters Using Constructed Wetland Treatment Systems. Presented at the International Symposium on Phytotechnology (U.S. EPA), March, 2005. Atlanta, GA.

Eggert, D., J.H. Rodgers, Jr., G.M. Huddleston III, C. Gulde, and F.D. Mooney. 2005. Design Constructed Wetland Treatment Systems for Flue Gas Desulfurization Wastewaters. Presented at the International Symposium on Phytotechnology (U.S. EPA), March, 2005. Atlanta, GA.

Rodgers, J.H., Jr., R. Jones, M. Duke, S. Lankford and W. Anderson. 2005. *Lyngbya* Growth and Control: We Are Working On It? Presented at the Annual Meeting of the Aquatic Plant Management Society. July, 2005. San Antonio, TX.

Duke, B.M., O.R. Tedrow and J.H. Rodgers, Jr. 2005. Site-specific Management of Problematic Algae Using a Copper-containing Algaecide. Presented at the Annual Meeting of the Aquatic Plant Management Society. July, 2005. San Antonio, TX.

Rodgers, J.H., Jr., R. Jones, M. Duke, S. Lankford and W. Anderson. 2005. *Lyngbya* Growth and Control: We Are Working On It? Presented at the 27th Annual Meeting of the South Carolina Aquatic Plant Management Society. August, 2005. Myrtle Beach, SC.

Duke, B.M., O.R. Tedrow and J.H. Rodgers, Jr. 2005. Site-specific Management of Problematic Algae Using a Copper-containing Algaecide. Presented at the 27th Annual Meeting of the South Carolina Aquatic Plant Management Society. August, 2005. Myrtle Beach, SC.

Johnson, B.M., L.E. Ober, J.W. Castle, and J.H. Rodgers, Jr. 2005. Treating Natural Gas Storage Produced Waters Using Constructed Wetland Treatment Systems. Presented at the Annual Meeting of the American Association of Petroleum Geologists, September, 2005. Morgantown, WV.

Rodgers, J.H., J.W. Castle, B.M. Johnson, and L.E. Ober. 2005. Progress of Design of Hybrid Constructed Wetland Treatment Systems for Natural Gas Storage Produced Waters. Presented at the Annual Meeting of the Gas Storage Technology Consortium (U.S. DOE), August, 2005, Pittsburg, PA.

Castle, J.W., J.H. Rodgers, Jr., B.M. Johnson, and L.E. Ober. 2005. A Demonstration-Scale Hybrid Construction Wetland Treatment System for Gas Storage Produced Waters. Presented at the Annual Meeting of the Gas Storage Technology Consortium (U.S. DOE), August, 2005, Pittsburg, PA.

Deardorff, T.L. and J.H. Rodgers, Jr. 2006. The efficacy of a constructed wetland for the pulp and paper industry: From the laboratory to a full-scale trial. Presented at the 27th Annual Meeting of the Society of Environmental Toxicology and Chemistry, Nov. 5-7, 2006, Montreal, CANADA. (ABSTRACTS p. 218).

Damiri, B.R. and J.H. Rodgers, Jr. 2006. Responses of *Typha latifolia* to aqueous boron exposures. Presented at the 27th Annual Meeting of the Society of Environmental Toxicology and

Chemistry, Nov. 5-7, 2006, Montreal, CANADA. (ABSTRACTS p.243).

Eggert, D.A., W.C. Bridges and J.H. Rodgers, Jr. 2006. *Ceriodaphnia dubia* exposed to mercuric nitrate: Assessment of sample size and statistical analysis for a 7d static/renewal toxicity test. Presented at the 27th Annual Meeting of the Society of Environmental Toxicology and Chemistry, Nov. 5-7, 2006, Montreal, CANADA. (ABSTRACTS p. 246).

Duke, B.M., O.R. Tedrow and J.H. Rodgers, Jr. 2006. Development of a planktonic algal bioassay using site water and copper containing algaecides. Presented at the 27th Annual Meeting of the Society of Environmental Toxicology and Chemistry, Nov. 5-7, 2006, Montreal, CANADA. (ABSTRACTS p. 245).

Kushner, L.R., J.H. Rodgers, Jr. and D.A. Eggert. 2006. Potential toxicity of aqueous exposures of cadmium, chromium, lead and zinc to *Ceriodaphnia dubia*. Presented at the 27th Annual Meeting of the Society of Environmental Toxicology and Chemistry, Nov. 5-7, 2006, Montreal, CANADA. (ABSTRACTS p. 301).

Johnson, B.M., D.A. Eggert and J.H. Rodgers, Jr. 2006. Treatment of Arsenic, Mercury, Nitrogen and Selenium in Flue Gas Desulfurization Water Using Pilot-Scale Constructed Wetland treatment Systems. Presented at the 27th Annual Meeting of the Society of Environmental Toxicology and Chemistry, Nov. 5-7, 2006, Montreal, CANADA. (ABSTRACTS p. 301).

Rodgers, J.H., Jr. 2007. Do algae spill their guts after treatment with algaecides?: A test of the "leaky cell" hypothesis. Presented at the 8th Annual Meeting of the Northeast Aquatic Plant Management Society, Jan.16-17, 2007. West Dover, Vermont.

Johnson, B.M. and J.H. Rodgers, Jr. 2007. Responses of sentinel non-target species to copper-containing algaecides. Presented at the 8th Annual Meeting of the Northeast Aquatic Plant Management Society, Jan.16-17, 2007. West Dover, Vermont.

Rodgers, J.H., Jr. 2007. Do algae spill their guts after treatment with algaecides?: A test of the "leaky cell" hypothesis. Presented at the 28th Annual Meeting of the South Carolina Aquatic Plant Management Society, Aug. 16-18, 2006. Springmaid Beach, SC.

Rodgers, J.H., Jr. 2006. Adaptive Water Resource Management and Harmful Algal Blooms. Presented at the Annual Meeting of the Texas Aquatic Plant Management Society. Sep. 11-13, 2006. Jasper, TX.

Rodgers, J.H., Jr. 2006. Selecting and managing plants for constructed wetland treatment systems. Presented at the 30th Annual Meeting of the Florida Aquatic Plant Management Society, Oct.30- Nov.2, 2006. St. Petersburg, FL.

Rodgers, J.H., Jr. and J.W. Castle 2006. Demonstration-scale constructed wetland system for treatment of produced waters from underground gas storage. Presented at the Gas Storage Technology Consortium Technology Transfer Workshop, Oct. 4, 2006. San Francisco, CA.

Rodgers, J.H., Jr. 2007. Do algae spill their guts after treatment with an algaecide?; A test of the “leaky cell” hypothesis. Presented at the 27th Annual Meeting of the MidWest Aquatic Plant Management Society, March 3-5, 2007. Milwaukee, WI.

Johnson, B.M. and J.H. Rodgers, Jr. 2007. Responses of sentinel non-target species to copper-containing algaecides. Presented at the 27th Annual Meeting of the MidWest Aquatic Plant Management Society, March 3-5, 2007. Milwaukee, WI.

Rodgers, J.H., Jr. 2007. Toxicology of herbicides. Presented at the 26th Annual Meeting of the Western Aquatic Plant Management Society, March 25-27, 2007. Coeur d’Alene, ID.

Rodgers, J.H., Jr. 2006. Do algae spill their guts after treatment with an algaecide?; A test of the “leaky cell” hypothesis. Presented at the 25th Annual Meeting of the MidSouth Aquatic Plant Management Society, October 24-26, 2006. Orange Beach, Alabama.

Dorman, L., J.W. Castle and J.H. Rodgers, Jr. 2007. Performance of a pilot-scale constructed wetland for simulated ash basin water. Presented at the Clemson Hydrogeology Symposium, April 17, 2007. Clemson, SC.

Iannacone, M., J.W. Castle and J.H. Rodgers, Jr. 2007. Evaluation of equalization basins as initial treatment for flue gas desulfurization waters. Presented at the Clemson Hydrogeology Symposium, April 17, 2007. Clemson, SC.

Cross, E., J.W. Castle, G.M. Huddleston and J.H. Rodgers, Jr. 2007. Design and construction, and acclimation of a demonstration-scale constructed wetland treatment system for natural gas storage produced waters. Presented at the Clemson Hydrogeology Symposium, April 17, 2007. Clemson, SC.

Bennett, D., J.W. Castle and J.H. Rodgers, Jr. 2007. Boron removal in constructed wetland treatment systems for irrigation waters: A process study. Presented at the Clemson Hydrogeology Symposium, April 17, 2007. Clemson, SC.

Eggert, D.E., C. Hensman and J.H. Rodgers, Jr. 2007. Performance of Pilot-Scale Constructed Wetland Treatment Systems for Flue Gas Desulfurization Waters. Presented at the 68th Annual International water Conference, Oct. 21-25, 2007. Orlando, FL.

C.Murray-Gulde, F.D. Mooney, G.M. Huddleston, III, J.H. Rodgers, Jr. and D. Eggert. 2007. Designing Constructed Wetlands for Mitigating Risks from Flue Gas Desulfurization Wastewater. Presented at the 68th Annual International water Conference, Oct. 21-25, 2007.

Orlando, FL.

J.H. Rodgers, Jr. 2008. Why Herbicides and Algaecides Kill Plants and Algae and Not Fish. Presented at the 2008 Bassmaster Classic Conservation Workshop. Feb 23, 2008. Greenville, SC.

J.H. Rodgers, Jr., B.M. Johnson, V. Molina, and W. Bishop. 2008. Choosing an Efficacious Algaecide: Development of a Decision Support System. Presented at the 28th Annual Meeting of the Midwest Aquatic Plant Management Society. Mar. 1-3, 2008. Sandusky, OH.

Bishop, W. and J.H. Rodgers, Jr. 2008. Effective Control of *Lyngbya wollei*: Variance in Response to Algaecides. Presented at the 28th Annual Meeting of the Midwest Aquatic Plant Management Society. Mar. 1-3, 2008. Sandusky, OH.

Pham, M.P.T., J. Horner, S. Chandler, J.W. Castle, J.H. Rodgers, Jr., and J.E. Myers. 2008. Design and construction of pilot-scale wetland treatment systems for beneficial reuse of produced water, Africa. Presented at the 16th Annual David S. Snipes / Clemson Hydrogeology Symposium. Apr. 2-4, 2008. Clemson, SC.

Huddleston, G.M.III, J.E. Heatley, J. Wrynski, B.M. Johnson, D.A. Eggert and J.H. Rodgers, Jr. 2008. Assessment of pesticide attenuation using mesocosm-scale agricultural drainage ditches. Presented at the 16th Annual David S. Snipes / Clemson Hydrogeology Symposium. Apr. 2-4, 2008. Clemson, SC.

Pham, M.P.T., J. Horner, S. Chandler, J.W. Castle, J.H. Rodgers, Jr., and J.E. Myers. 2008. Design and construction of pilot-scale wetland treatment systems for beneficial reuse of produced water, Africa. Presented at the 57th Annual Meeting of the Southeastern Section of the Geological Society of America. Apr. 10-11, 2008. Charlotte, NC.

Rodgers, John H., Jr. 2008. Algae ID, Problems and Control. Presented at the Short Course on Recreational Pond Management. Oct. 8-9, 2008. Clemson University Baruch Institute, Georgetown, SC.

B.M. Johnson and J.H. Rodgers, Jr. 2008. *Lyngbya* in Kings Bay/Crystal River, FL.: Risk Characterization. Presented at the 32nd Annual Meeting of the Florida Aquatic Plant Management Society. Oct. 13-16, 2008. Daytona Beach, FL.

J.H. Rodgers, Jr. and B.M. Johnson. 2008. *Lyngbya* in Kings Bay/Crystal River, FL.: Management Implications. Presented at the 32nd Annual Meeting of the Florida Aquatic Plant Management Society. Oct. 13-16, 2008. Daytona Beach, FL.

Rodgers, John H., Jr. 2008. Algae ID, Problems and Control. Presented at the Short Course on Pond Management. Nov. 5, 2008. NC State University, Mountain Horticultural Crops Research & Extension Center, Mills River, NC.

J. Rodgers, Jr., L. Fuentes, L.J. Moore, W. Bowerman, G. Yarrow, W. Chao and K. Leith. 2008. Ecological risk assessment for anuran species and Roundup® herbicides: Laboratory studies. Presented at the 29th Annual Meeting of the Society of Environmental Toxicology and Chemistry. Nov. 16-20, 2008. Tampa, FL.

W.M. Bishop, B.M. Johnson and J. Rodgers, Jr. 2008. Comparative responses of seven algal species to exposures of a copper-based algaecide. Presented at the 29th Annual Meeting of the Society of Environmental Toxicology and Chemistry. Nov. 16-20, 2008. Tampa, FL.

L.J. Moore, L. Fuentes, J. Rodgers, Jr., W. Bowerman, G. Yarrow, W. Chao and K. Leith. 2008. Comparative toxicity of the original formulation of Roundup® herbicide to three anuran species in laboratory tests. Presented at the 29th Annual Meeting of the Society of Environmental Toxicology and Chemistry. Nov. 16-20, 2008. Tampa, FL.

L. Fuentes, L.J. Moore, J. Rodgers, Jr., W. Bowerman, G. Yarrow, W. Chao and K. Leith. 2008. Role of sediments in modifying the toxicity of Roundup WeatherMax® to anuran species: A laboratory study. Presented at the 29th Annual Meeting of the Society of Environmental Toxicology and Chemistry. Nov. 16-20, 2008. Tampa, FL.

V. Molina, B.M. Johnson, W.M. Bishop, J. Rodgers, Jr. and A.R. Johnson. 2008. Evaluation of methods for cell disruption and microcystin measurement in *Microcystin aeruginosa*. Presented at the 29th Annual Meeting of the Society of Environmental Toxicology and Chemistry. Nov. 16-20, 2008. Tampa, FL.

M. Osborne-Koch, D. Eggert, and J. Rodgers, Jr. 2008. Comparative responses (survival and reproduction) of *Ceriodaphnia dubia* to aqueous exposures of sodium selenate and sodium selenite. Presented at the 29th Annual Meeting of the Society of Environmental Toxicology and Chemistry. Nov. 16-20, 2008. Tampa, FL.

D. A. Eggert, G. M. Huddleston, J. Heatley and J. Rodgers, Jr. 2008. Responses of mature *Schoenoplectus californicus* and *Typha latifolia* to boron exposures in flue gas desulfurization (FGD) waters in the laboratory and the field. Presented at the 29th Annual Meeting of the Society of Environmental Toxicology and Chemistry. Nov. 16-20, 2008. Tampa, FL.

B.M. Johnson, W.M. Bishop and J. Rodgers, Jr. 2008. Management of *Lyngbya wollei*, an invasive cyanobacterium, in Kings Bay, Crystal River, FL: Restoration of ecosystem services. Presented at the 29th Annual Meeting of the Society of Environmental Toxicology and Chemistry. Nov. 16-20, 2008. Tampa, FL.

A.D. McQueen, J.H. Rodgers, Jr., and W.R. English. Mitigating risks of campus parking lot stormwater: Use of constructed wetland treatment systems. Presented at the 29th Annual Meeting of the Society of Environmental Toxicology and Chemistry. Nov. 16-20, 2008. Tampa, FL.

J. Horner, P. Pham, J.W. Castle, J.H. Rodgers, Jr., C. Murray-Gulde and J.E. Myers. 2008. Performance of a pilot-scale constructed wetland treatment system for beneficial reuse of oil field produced water. Presented at the 29th Annual Meeting of the Society of Environmental Toxicology and Chemistry. Nov. 16-20, 2008. Tampa, FL.

Bishop, W.M., B.M. Johnson and J.H. Rodgers, Jr. 2009. Targeted management of problematic algae. Presented at the 10th Annual Meeting of the Northeast Aquatic Plant Management Society. Jan. 19-21, 2009. Saratoga Springs, NY.

J.H. Rodgers, Jr., B.M. Johnson and W.M. Bishop. 2009. Do algae spill their guts when treated with algaecides?: A look at the data and implications for decision making. Presented at the 10th Annual Meeting of the Northeast Aquatic Plant Management Society. Jan. 19-21, 2009. Saratoga Springs, NY.

B.M. Johnson and J.H. Rodgers, Jr. 2009. A risk and management assessment for *Lyngbya wollei* in Kings Bay/Crystal River, Florida. Presented at the 10th Annual Meeting of the Northeast Aquatic Plant Management Society. Jan. 19-21, 2009. Saratoga Springs, NY.

J.H. Rodgers, Jr., B.M. Johnson and W.M. Bishop. 2009. Do algae spill their guts when treated with algaecides?: A look at the data and implications for decision making. Presented at the 29th Annual Meeting of the Midwest Aquatic Plant Management Society. March 1-4, 2009. Lisle, IL.

Bishop, W.M., B.M. Johnson and J.H. Rodgers, Jr. 2009. Targeted management of problematic algae. Presented at the 29th Annual Meeting of the Midwest Aquatic Plant Management Society. March 1-4, 2009. Lisle, IL.

B.M. Johnson and J.H. Rodgers, Jr. 2009. A risk and management assessment for *Lyngbya wollei* in Kings Bay/Crystal River, Florida. Presented at the 29th Annual Meeting of the Midwest Aquatic Plant Management Society. March 1-4, 2009. Lisle, IL.

Rodgers, J.H., Jr., J.W. Castle, J. Horner, M. Spacil, D. Eggert, B. Alley, A. Beebe, P. Pham, Y. Song, J.E. Myers, C. Murray Gulde, M. Huddleston, and D. Mooney. 2009. Constructed wetland treatment systems for renovation of energy produced water for beneficial reuse. Presented at the 17th Annual David S. Snipes/Clemson Hydrogeology Symposium. April 2, 2009. Clemson, SC.

Horner, J., M.P. T. Pham, S. Chandler, J.W. Castle, J.H. Rodgers, Jr., C. Murray Gulde and J.E. Myers. 2009. Performance of a pilot-scale constructed wetland treatment system for beneficial reuse of oilfield produced water. Presented at the 17th Annual David S. Snipes/Clemson Hydrogeology Symposium. April 2, 2009. Clemson, SC.

Spacil, M. and J.H. Rodgers, Jr. 2009. Treatment of selenium in simulated refinery effluent using a pilot-scale constructed wetland treatment system. Presented at the 17th Annual David S.

Snipes/Clemson Hydrogeology Symposium. April 2, 2009. Clemson, SC.

Rodgers, J.H., W. Bishop and B. Johnson. 2009. Chelated copper: How they work and differences in formulations. Presented at the 31st Annual Meeting of the South Carolina Aquatic Plant Management Society, Inc. August 12-14, 2009. Clemson, SC.

Johnson, B., W. Bishop and J.H. Rodgers, Jr. 2009. Responses of *Microcystis* to laboratory exposures of algaecides. Presented at the 31st Annual Meeting of the South Carolina Aquatic Plant Management Society, Inc. August 12=14, 2009. Clemson, SC.

Bishop, W., B. Johnson and J.H. Rodgers, Jr. 2009. Comparison of laboratory and field responses of *Lyngbya magnifica* to similar algaecide exposures. Presented at the 31st Annual Meeting of the South Carolina Aquatic Plant Management Society, Inc. August 12-14, 2009. Clemson, SC.

Rodgers, J.H. 2009. Is an NPDES (National Pollutant Discharge Elimination System) permit in your future? Presented at the 31st Annual Meeting of the South Carolina Aquatic Plant Management Society, Inc. August 12-14, 2009. Clemson, SC.

Rodgers, J.H. and J.W. Castle. 2009. Constructed wetlands application to uranium acid mine drainage (AMD) treatment: Theory and experience. Presented at the Workshop on Constructed Wetland Treatment Systems for Impaired Waters in Saskatchewan. Saskatchewan Research Council. September 15-19, 2009. Saskatoon, Saskatchewan, CANADA.

Castle, J. W. and J.H. Rodgers, Jr. 2009. Geochemical reactions in constructed wetlands for treatment of uranium, arsenic, radionuclides and low pH AMD streams. Presented at the Workshop on Constructed Wetland Treatment Systems for Impaired Waters in Saskatchewan. Saskatchewan Research Council. September 15-19, 2009. Saskatoon, Saskatchewan, CANADA.

Castle, J. W. and J.H. Rodgers, Jr. 2009. Role of toxin-producing algae in phanerozoic mass extinctions: Evidence from modern environments and the geologic record. (Abstract No. 163685) Presented at the Annual Meeting of the Geological Society of America. October 19, 2009. Portland. OR.

Rodgers, J.H., B. Johnson and W. Bishop. 2009. Do algae spill their guts when treated with algaecides? A look at the data and implications for decision making. Presented at the 29th International Symposium of the North American Lake Management Society. October 27-31, 2009. Hartford, Connecticut.

Bishop, W., B. Johnson and J.H. Rodgers, Jr. 2009. Responses of Cyanobacteria to algaecides: Efficacy and microcystin measurements. Presented at the 29th International Symposium of the North American Lake Management Society. October 27-31, 2009. Hartford, Connecticut.

Johnson, B., W. Bishop and J.H. Rodgers, Jr. 2009. A risk and management assessment for a filamentous Cyanobacterium in Kings Bay/Crystal River, Florida. Presented at the 29th International Symposium of the North American Lake Management Society. October 27-31, 2009. Hartford, Connecticut.

Rodgers, J.H., Jr. 2009. Role of Cyanobacteria in mass extinctions – review of paper by Castle and Rodgers. National Public Radio (NPR) Science Friday (Joe Palka), October 23, 2009.

Castle, J.W. and J.H. Rodgers, Jr. 2009. Role of Cyanobacteria in mass extinctions – implications for the present time and the future. New York Public Radio, Leonard Lapate Show. (New York City) October 29, 2009.

Castle, J.W. and J.H. Rodgers, Jr. 2009. Constructed wetland treatment systems for environmentally friendly drilling. Presented at the 16th Annual Petroleum and Biofuels Conference. November 3-5, 2009. Houston, TX.

Rodgers, J.H., Jr., W. Bishop and B.M. Johnson. 2010. Algae on the move: Recent expansions of noxious algae. Presented at the 30th Annual Conference of the Midwest Aquatic Plant Management Society, February 28 – March 3, 2010. Indianapolis, IN.

Bishop, W., B.M. Johnson and J.H. Rodgers, Jr. 2010. Comparative responses of target and non-target species to exposures of Algimycin-PWF. Presented at the 30th Annual Conference of the Midwest Aquatic Plant Management Society, February 28 – March 3, 2010. Indianapolis, IN.

Castle, J.W., J.R. Wagner, J.H. Rodgers, Jr. and G.R. Hill. 2010. Technology training of engineers, geologists, and technicians for commercial deployment of carbon capture and sequestration: SECARB-Ed. Presented at the 18th Annual David S. Snipes / Clemson Hydrogeology Symposium. April 1, 2010. Clemson, SC.

Castle, J.W., J.H. Rodgers, Jr., B. Alley, M. Spacil, A. Beebe, M. Pardue and Y. Song, 2010. Biogeochemical processes for treating oil and gas produced waters using hybrid constructed wetland treatment systems. Presented at the American Association of Petroleum Geologists 2010 Annual Convention and Exhibition. April 11 – 14, 2010. New Orleans, LA.

Alley, B., A. Beebe, J.H. Rodgers, Jr. and J.W. Castle. 2010. A comparative characterization of produced waters from conventional and unconventional fossil fuel resources. Presented at the American Association of Petroleum Geologists 2010 Annual Convention and Exhibition. April 11 – 14, 2010. New Orleans, LA.

Horner, J., M. Pardue, M.P. Pham, J.W. Castle, J.H. Rodgers, Jr., J.E. Myers and C.M. Gulde. 2010. Design and performance of a pilot-scale constructed wetland treatment system for removing oil and grease from oilfield produced waters. Presented at the American Association of Petroleum Geologists 2010 Annual Convention and Exhibition. April 11 – 14, 2010. New

Orleans, LA.

Castle, J. W., and Rodgers, J. H., Jr. 2009. Role of Toxin-Producing Algae in Phanerozoic Mass Extinctions: Evidence from Modern Environments and the Geologic Record,” *Geological Society of America Abstracts with Programs*, October 2009, v. 41, no. 7, p. 240.

Rodgers, J.H., W.M. Bishop and B.M. Johnson. 2010. Algae on the move: Recent range expansion of *Prymnesium parvum*. Presented at the 50th Annual Meeting of the Aquatic Plant Management Society. Bonita Springs, FL. July 11-14, 2010.

Bishop, W.M. and J.H. Rodgers, Jr. 2010. Responses of *Lyngbya wollei* to copper-based algaecides: The critical burden concept. Presented at the 50th Annual Meeting of the Aquatic Plant Management Society. Bonita Springs, FL. July 11-14, 2010.

Rodgers, J. H., Jr., and Castle, J. W. 2010. “Characteristics of Produced Waters and Biogeochemical Processes for Effective Management Using Constructed Wetland Treatment Systems,” Goldschmidt International Conference on Earth, Energy, and the Environment, Knoxville, TN, June 2010. Abstract published in *Geochimica et Cosmochimica Acta*, v. 74, issue 12, Supplement 1, p. A876.

Castle, J. W., Rodgers, J. H., Jr., Spacil, M., Horner, J. E, Alley, B., and Pardue, M. 2010. “Pilot-Scale Constructed Wetland Treatment Systems for Oil & Gas Produced Waters,” 17th Annual International Petroleum and Biofuels Environmental Conference: Environmental Issues and Solutions in Exploration, Production, Refining & Distribution of Petroleum, San Antonio, TX, September 2010.

Castle, J. W., Rodgers, J. H., Jr., Spacil, M., Horner, J. E, Alley, B., and Pardue, M. 2010. “Pilot-Scale Constructed Wetland Systems for Treating Energy-Produced Waters,” Ground Water Protection Council Annual Forum, Water & Energy in Changing Climates, Pittsburgh, PA, September 2010.

Bishop, W., and J.H. Rodgers, Jr. 2010. Responses of *Lyngbya wollei* to copper-based algaecides: The critical burden concept. Presented at the 29th Annual Meeting of the Mid-South Aquatic Plant Management Society. October 12-14, 2010. Guntersville, AL.

Rodgers, J.H., Jr. 2010. Evaluation of the NPDES Permitting System. Presented at the 29th Annual Meeting of the Mid-South Aquatic Plant Management Society, October 12-14, 2010. Guntersville, AL.

Castle, J. W., Rodgers, J. H., Jr., Spacil, M., Alley, B., and Pardue, M. 2010. “A Pilot-Scale Study to Apply Biogeochemical Processes of Natural Wetlands to Treating Impaired Waters Using Constructed Wetland Treatment Systems,” Geological Society of America Annual National Meeting, Denver, CO, November 2010, Abstract published in *Geological Society of*

America Abstracts with Programs, v. 42, no. 5, p. 640.

Rodgers, J.H. 2010. Common algal problems and their management. Presented at the 2010 NC Turfgrass Conference & Show. (Dec. 13-15, 2010) Greensboro, NC.

Rodgers, J.H. 2010. Changing regulation of aquatic herbicides applications: How NPDES affects you. Presented at the 2010 NC Turfgrass Conference & Show. (Dec. 13-15, 2010) Greensboro, NC.

Rodgers, J.H. and B. Willis. 2011. Algae on the move: Recent range expansion of *Prymnesium parvum*. Presented at the 31st Annual Meeting of the Midwest Aquatic Plant Management Society, Grand Rapids, MI. Feb. 27 - Mar.2, 2011.

Rodgers, J.H. 2011. Responses of *Lyngbya wollei* to copper-based algaecides: The critical burden concept. Presented at the 12th Annual Meeting of the Northeast Aquatic Plant Management Society, Portsmouth, NH. Jan. 18 - 20, 2011.

Rodgers, J.H., W.M. Bishop and B.E. Willis. 2011. Algae on the move: Recent range expansion of *Prymnesium parvum*. Presented at the 12th Annual Meeting of the Northeast Aquatic Plant Management Society, Portsmouth, NH. Jan. 18 - 20, 2011.

Beebe, D. A., Castle, J. W., and Rodgers, J. H. 2010. "Evaluation of Clinoptilolite for Use as a Sorptive Microbial Carrier in Constructed Wetland Treatment Systems Designed to Treat Ammonia," Geological Society of America, South-Central Annual Meeting, New Orleans, LA, March 2011.

Alley, B., D.A. Beebe, J.H. Rodgers, Jr., and J.W. Castle. 2011. Chemical and physical characterization of produced waters from conventional and unconventional fossil fuel resources. Presented at the 19th Annual David S, Snipes/ Clemson Hydrogeology Symposium. Clemson University, Clemson, SC. April 7, 2011.

Beebe, D. A., J.W. Castle and J.H. Rodgers, Jr. 2011. Clinoptilolite as a dual purpose sorbent and microbial carrier in constructed wetland treatment systems designed to remove ammonia. Presented at the 19th Annual David S, Snipes/ Clemson Hydrogeology Symposium. Clemson University, Clemson, SC. April 7, 2011.

Jurinko, K., C.L. Ritter, J.W. Castle and J.H. Rodgers, Jr. 2011. Biogeochemical process in a pilot-scale constructed wetland treatment system designed to remove metals from produced water. Presented at the 19th Annual David S, Snipes/ Clemson Hydrogeology Symposium. Clemson University, Clemson, SC. April 7, 2011.

Pardue, M.J., J.W. Castle and J.H. Rodgers, Jr. 2011. Evaluation of a pilot-scale constructed wetland treatment system for treatment of a specific oilfield produced water. Presented at the 19th

Annual David S, Snipes/ Clemson Hydrogeology Symposium. Clemson University, Clemson, SC. April 7, 2011.

Ritter, C.L., K.N. Jurinko, J.W. Castle and J.H. Rodgers, Jr. 2011. Biogeochemical processes in a constructed wetland treatment system designed for removal of selenium from energy produced water. Presented at the 19th Annual David S, Snipes/ Clemson Hydrogeology Symposium. Clemson University, Clemson, SC. April 7, 2011.

Castle, J. W., R. W. Falta, J. R. Wagner and J. H. Rodgers, Jr. 2011. Introduction to carbon capture and sequestration. Carbon Capture and Storage (CCS) Short Course. Presented at the 19th Annual David S, Snipes/ Clemson Hydrogeology Symposium. Clemson University, Clemson, SC. April 7, 2011.

Castle, J. W., R. W. Falta, J. R. Wagner and J. H. Rodgers, Jr. 2011. Role of water in carbon capture and sequestration. Carbon Capture and Storage (CCS) Short Course. Presented at the 19th Annual David S, Snipes/ Clemson Hydrogeology Symposium. Clemson University, Clemson, SC. April 7, 2011.

Castle, J. W., R. W. Falta, J. R. Wagner and J. H. Rodgers, Jr. 2011. Carbon capture and sequestration: Opportunities and challenges. Carbon Capture and Storage (CCS) Short Course. Presented at the 19th Annual David S, Snipes/ Clemson Hydrogeology Symposium. Clemson University, Clemson, SC. April 7, 2011.

John H. Rodgers, Jr. and Ben E. Willis. 2012. Algae on the move: Recent range expansion of *Prymnesium parvum*. Presented at the 32nd Annual Meeting of the Midwest aquatic plant Management Society. February 26-29, 2012. Milwaukee WI.

John H. Rodgers, Jr. , West M. Bishop and Ben E. Willis . 2011. Algae on the move: Recent range expansion of *Prymnesium parvum*. Presented at the 13th Annual Meeting of the Northeast Aquatic Plant Management Society. January 17-19, 2011. New Castle, NH.

Rodgers, J.H., R. Brown, D. Issacs, N. Long, W.A. Ratajczyk and J.C. Schmidt. 2011. Algae taste-and-odor issues in a drinking water supply lake: Intervention and results. Presented at the 51st Annual Meeting of the Aquatic Plant Management Society, Baltimore, MD. July 24-27, 2011.

Rodgers, J. H., Jr., J.W. Castle, M. M. Spacil and Christina Ritter. 2011. Treating Selenium in Energy-Derived Produced Waters for Surface Water Discharge Using Constructed Wetland Treatment Systems. Presented at the Annual Meeting of the Geological Society of America. October 9-13, 2011. Minneapolis, MN.

John H. Rodgers, Jr., J.W. Castle, M. M. Spacil and Christina Ritter. 2011. Constructed Wetland Treatment Systems for Energy-Derived Produced Waters: Treating Selenium for Surface Water

Discharge. Presented at the 32nd Annual Meeting of the Society of Environmental Toxicology and Chemistry. November 13-17, 2011. Boston, MA.

Beebe, D. A., Song, Y., Castle, J. W., and Rodgers, J. H. Jr. 2011. Pilot Study of Constructed Wetland Treatments Systems for Ammonia in Water Produced from Oil Extraction. Presented at the 32nd Annual Meeting of the Society of Environmental Toxicology and Chemistry. November 13-17, 2011. Boston, MA.

Bethany L. Alley¹, John H. Rodgers, Jr. ¹, and James W. Castle . 2011 Renovating Fresh Oilfield Produced Waters for Beneficial Uses: Managing Constructed Wetland Treatment Systems for Performance. Presented at the 32nd Annual Meeting of the Society of Environmental Toxicology and Chemistry. November 13-17, 2011. Boston, MA.

Rodgers, J.H. 2011. Presidential address: Aquatic plant management: The new normal. Presented at the 33rd Annual Meeting of South Carolina Aquatic Plant Management Society, Inc., Clemson, SC, August 17-19, 2011.

Willis, B. and J.H. Rodgers. 2011. Measuring copper residues from algaecide and herbicide applications. Presented at the 33rd Annual Meeting of South Carolina Aquatic Plant Management Society, Inc., Clemson, SC, August 17-19, 2011.

Rodgers, J.H. and R. Richardson. 2011. Update on NPDES for the SCAPMS region. Presented at the 33rd Annual Meeting of South Carolina Aquatic Plant Management Society, Inc., Clemson, SC, August 17-19, 2011.

Rodgers, J.H. 2012. Algae and Taste-and-Odor Issues in a drinking water supply lake: Intervention and Results. Presented at the Midwest Aquatic Plant Management Society, 32nd Annual Conference, Milwaukee, WI. February 26-29, 2012.

Rodgers, J.H. 2012. Use of peroxyhydrate algicide (Phycomycin) in water resource management. Presented at the 22nd Annual Conference of the Pennsylvania Lake Management Society. State College, PA. March 7-8, 2012.

Rodgers, J.H. 2012. Problematic cyanobacteria in water resources: Strategy for Intervention and Case Studies. Presented at the 22nd Annual Conference of the Pennsylvania Lake Management Society. State College, PA. March 7-8, 2012.

Rodgers, J.H. 2012. Toxicology of herbicides. Presented at Minnesota Aquatic and Invasive Species Workshop. Minneapolis, MN. March 19-20, 2012.

Pardue, M., J.W.Castle, G.M. Huddleston and J.H. Rodgers. 2012. Treatment of oilfield produced water using a constructed wetland treatment system. Presented at the 20th Annual David S. Snipes / Clemson Hydrogeology Symposium. Clemson, SC. April 12, 2012.

Alley, B., B. Willis, J.H. Rodgers, Jr. and J.W. Castle. 2012. Water depth and treatment performance of free water surface constructed wetland treatment systems for simulated fresh oil-field produced water. Presented at the 20th Annual David S. Snipes / Clemson Hydrogeology Symposium. Clemson, SC. April 12, 2012.

Beebe, A., B. Alley, J.W. Castle, and J.H. Rodgers, Jr. 2012. Evaluation of coal-bed methane produced water in western Alabama for use as a water resource during drought. Presented at the 20th Annual David S. Snipes / Clemson Hydrogeology Symposium. Clemson, SC. April 12, 2012.

Van Heest, P., J.H. Rodgers, Jr., J.W. Castle, and M.M. Spacil. 2012. Treatment of selenium in pilot-scale constructed wetland treatment systems: Effects of temperature and nutrient-amendment mass loading. Presented at the 20th Annual David S. Snipes / Clemson Hydrogeology Symposium. Clemson, SC. April 12, 2012.

Willis, B. and J.H. Rodgers, Jr. 2012. Bioavailability and analytical measurements of copper residuals in sediments. Presented at the 20th Annual David S. Snipes / Clemson Hydrogeology Symposium. Clemson, SC. April 12, 2012.

Rodgers, J.H., Jr. 2012. Criteria used to measure wetland reconstruction success. Presented at Key Factors to Successfully Reconstruct Boreal Wetland Ecosystems – An International Workshop. Chantilly, France. April 16-17, 2012.

Rodgers, J.H., Jr., R. Brown, D. Isaacs, K. Gazaille, W. Ratajczyk, and J. Schmidt. 2012. Targeted algal management: Some case studies. Presented at the 52nd Annual meeting of the Aquatic Plant Management Society, Salt Lake City, UT, July 22-25, 2012.

Rodgers, J.H. Jr. 2012. Update: NPDES Permits for Pesticides, Presented at the 34th Annual Meeting of the SC Aquatic Plant Management Society. Spring Maid Beach, SC. October 17-19, 2012.

Rodgers, J.H., Jr. and J.W. Castle. 2012. Water in carbon capture and sequestration: Challenges and opportunities. Presented at the 33rd Annual Meeting of the Society of Environmental Toxicology and Chemistry. Long Beach, CA. Nov. 11-15, 2012.

Spacil, M.M., J.H. Rodgers, Jr., J.W. Castle and W.Y. Chao. 2012. Treatment of Selenium in produced water using a pilot-scale constructed wetland treatment system. Presented at the 33rd Annual Meeting of the Society of Environmental Toxicology and Chemistry. Long Beach, CA. Nov. 11-15, 2012.

Rodgers, J.H., Jr. 2012. Strategies for design of active and passive constructed wetlands for oil sands process waters. Invited presentation at Olds College, Olds, Alberta, CANADA. Nov. 15, 2013.

Willis, B. and J.H. Rodgers, Jr. 2012. Accumulation and Effects of Residual Copper in Sediments of a Pond Following an Algaecide Application. Presented at the 34th Annual South Carolina Aquatic Plant Management Society Meeting. Myrtle Beach, SC. October 18, 2011.

Rodgers, J.H. 2012. The use of algaecides in adaptive water resource management. Presented at the 32nd International Symposium of the North American Lake Management Society. Madison, WI. Nov. 7-9, 2012.

Rodgers, J. H. and A. Calomeni. 2013. The use of algaecides in adaptive water resource management: Some case studies. Presented at the Meeting of the Midwest Aquatic Plant Management Society. Cleveland, OH. March 3-5, 2013. Won the poster contest.

Rodgers, J.H. 2013. The use of algaecides in adaptive water resource management. Presented at the Annual Meeting of the Western Aquatic Plant Management Society. Coeur d'Alene, ID. March 25-27, 2013.

Rodgers, J.H. and A.J. Calomeni. 2013. The use of algaecides in adaptive water resource management. Presented at the Annual Meeting of the Aquatic Plant Management Society. San Antonio, TX. July 14-17, 2013

Rodgers, J.H., Jr. and A.J. Calomeni. 2013. The use of algaecides in adaptive water resource management. Presented at the 32nd Annual Meeting of the Mid South Aquatic Plant Management Society. Tunica, MS. Sep. 16-18, 2013.

Rodgers, J.H. and A.J. Calomeni. 2013. The use of algaecides in adaptive water resource management. Presented at the 38th Annual Meeting of the Florida Aquatic Plant Management Society. Daytona Beach, FL. Oct. 13-16, 2013

Alley, B.L., J.H. Rodgers, Jr., and J.W. Castle. 2013. Seasonal performance of a hybrid pilot-scale constructed wetland treatment system for simulated fresh oilfield produced water. Presented at the 21st Annual David S. Snipes/Clemson Hydrogeology Symposium. Clemson, SC. April 4, 2013.

Beebe, A., J.W. Castle and J.H. Rodgers, Jr. 2013. Effects of evapotranspiration on water treatment performance in constructed wetlands. Presented at the 21st Annual David S. Snipes/Clemson Hydrogeology Symposium. Clemson, SC. April 4, 2013.

Coffey, R.E., J.W. Castle and J.H. Rodgers, Jr. 2013. A demonstration constructed wetland treatment system for unconventional gas produced water. Presented at the 21st Annual David S. Snipes/Clemson Hydrogeology Symposium. Clemson, SC. April 4, 2013.

Huddleston, M., J.H. Rodgers, Jr., J.W. Castle. And M. Spacil. 2013. Treatment of Selenium as a

constituent of ecological concern in energy-produced waters. Presented at the 21st Annual David S. Snipes/Clemson Hydrogeology Symposium. Clemson, SC. April 4, 2013.

Schwindaman, J.P., J.W. Castle and J.H. Rodgers, Jr. 2013. Fate and distribution of Arsenic in a pilot-scale constructed wetland treatment system for simulated Bangladesh groundwater. Presented at the 21st Annual David S. Snipes/Clemson Hydrogeology Symposium. Clemson, SC. April 4, 2013.

Huddleston, M., J.H. Rodgers, Jr., J.W. Castle. And M. Spacil. 2013. Treatment of Selenium as a constituent of ecological concern in energy-produced waters. Presented at the SME Symposium on Environmental Considerations in Energy Production. Charleston, WV. April 14-18, 2013.

Rodgers, J.H., Jr. and A. Calomeni. 2013. Targeted algal management at Lake John Hay. Presented at the 36th Annual Meeting of the South Carolina Aquatic Plant Management Society, Myrtle Beach, SC. Oct. 23-25, 2013.

Haakensen, M., V. Pittit, J. Castle and J.H. Rodgers, Jr. 2013. Effects of freeze-thaw and biochar on sequestration and localization of elements within oxidizing and reducing pilot constructed wetland treatment systems. Presented at the 34th Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC North America), Nashville, TN. 17-21 Nov. 2013.

Calomeni, A. and J.H. Rodgers, Jr. 2013. Assessment of six indicators for algal cell viability. Presented at the 34th Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC North America), Nashville, TN. 17-21 Nov. 2013.

Huddleston, G.M., J.H. Rodgers, Jr. and A. McQueen. 2013. A proposed framework for an Environmental and Toxicology Assessment of an unleaded piston engine aviation fuel. Presented at the 34th Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC North America), Nashville, TN. 17-21 Nov. 2013.

Tsai, K.P. and J.H. Rodgers, Jr. 2013. Toxicity of copper sulfate and copper-ethanolamine to *Microcystis aeruginosa* and *Pseudokirchneriella subcapitata* at different initial cell densities. Presented at the 34th Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC North America), Nashville, TN. 17-21 Nov. 2013.

Rodgers, J.H. 2014. Control of noxious algae in water resources. Webinar at Synterra, Greenville, SC (May 29, 2014).

Calomeni, A.J. and J.H. Rodgers, Jr. 2014. Assessment of six indicators for algal cell viability. Presented at the 54th Annual Meeting of the Aquatic Plant Management Society, Savannah, GA 14-16 July 2014.

Rodgers, J.H., Jr., A.J. Calomeni and K.I Iwinski. 2014. Enhancement of targeted algal management. Presented at the 54th Annual Meeting of the Aquatic Plant Management Society, Savannah, GA 14-16 July 2014.

Rodgers, J. H., Jr., K. Getsinger, E. Dibble, and D. Spenser. 2014. Benefits of controlling nuisance aquatic plants and algae in the United States. Presented at the 54th Annual Meeting of the Aquatic Plant Management Society, Savannah, GA 14-16 July 2014.

Rodgers, J.H., Jr., A.J. Calomeni and K.I Iwinski. 2014. Post-treatment fate of copper applied as algaecides and herbicides. Presented at the 54th Annual Meeting of the Aquatic Plant Management Society, Savannah, GA 14-16 July 2014.

Calomeni, A.J. and J.H. Rodgers, Jr. 2014. Evaluation of algaecide applications for treatment of *Lyngbya wollei* in Lay Lake. Presented at the 36th Annual Meeting of the South Carolina Aquatic Plant Management Society, Myrtle Beach, SC 8-10 Oct. 2014.

Rodgers, J. H., Jr., K. Getsinger, E. Dibble, and D. Spenser. 2014. Benefits of controlling nuisance aquatic plants and algae in the United States. Presented at the 36th Annual Meeting of the South Carolina Aquatic Plant Management Society, Myrtle Beach, SC 8-10 Oct. 2014.

Rodgers, J.H. 2014. In house vs. outhouse microbial control for industrial waters. Presented at Microbial Control Challenges in Industrial Water, Recent Advances in Microbial Control, Society of Industrial Microbiology, San Francisco, CA (November 9-12, 2014).

Calomeni, A.J. and J.H. Rodgers, Jr. 2014. Responses of *Planktothrix agardhii* and *Pseudokirchneriella subcapitata* to copper sulfate (CuSO₄·H₂O) and a chelated copper compound (Cutrine[®]-Ultra). Presented at the 35th Annual Meeting of the Society of Environmental Toxicology and Chemistry, Vancouver, BC 9-13 Nov. 2014.

Kinley, C., J.H. Rodgers, Jr., K.J. Iwinski, A.D. McQueen and A.J. Calomeni. 2014. Evaluation of the I₃- method to confirm sodium carbonate peroxyhydrate algaecide exposures. Presented at the 35th Annual Meeting of the Society of Environmental Toxicology and Chemistry, Vancouver, BC 9-13 Nov. 2014.

Rodgers, J.H., K. Getsinger, E. Dibble and D. Spenser. 2015. Benefits of controlling nuisance aquatic plants and algae in the United States. Keynote Presentation at the Northeast Aquatic Plant Management Society. Saratoga Springs, NY 20-22 Jan. 2015.

Kinley, C. and J.H. Rodgers, Jr. 2015. Evaluation of the I₃- method to confirm SCP-based algaecide exposures. Presented at the Annual Meeting of the Northeast Aquatic Plant Management Society. Saratoga Springs, NY 20-22 Jan. 2015.

Calomeni, A.J. and J.H. Rodgers, Jr. 2015. Evaluation of algaecide applications for treatment of

Lyngbya wollei in Lay Lake. Presented at the Annual Meeting of the Northeast Aquatic Plant Management Society. Saratoga Springs, NY 20-22 Jan. 2015.

Calomeni, A. and J.H. Rodgers, Jr. 2015. Evaluation of algaecide applications for treatment of *Lyngbya wollei* in Lay Lake. Presented at the 35th Annual Meeting of the Midwest Aquatic Plant Management Society, Indianapolis, IN. 22-25 Feb. 2015.

Iwinski, K. and J.H. Rodgers, Jr. 2015. Copper residuals, in situ sediment benthic abundance, and sediment toxicity: Comparison of copper algaecide treated coves and untreated coves in a southern reservoir. Presented at the 35th Annual Meeting of the Midwest Aquatic Plant Management Society, Indianapolis, IN. 22-25 Feb. 2015.

Rodgers, J.H., Jr. K. Getsinger, E. Dibble, and D. Spenser. 2015. Benefits of controlling nuisance aquatic plants and algae in the United States. Presented at the 35th Annual Meeting of the Midwest Aquatic Plant Management Society, Indianapolis, IN. 22-25 Feb. 2015.

McQueen, A., J.H. Rodgers, Jr. and J.W. Castle. 2015. Photocatalysis of commercial naphthenic acids using fixed-film TiO₂. Presented at the 23rd Annual David S. Snipes/Clemson Hydrogeology Symposium. Clemson, SC. March 26, 2015.

Kickhaefer, R., J.W. Castle and J.H. Rodgers, Jr. 2015. Water characteristics affecting photocatalytic oxidation of commercial naphthenic acids. Presented at the 23rd Annual David S. Snipes/Clemson Hydrogeology Symposium. Clemson, SC. March 26, 2015.

Muller, S., J.W. Castle and J.H. Rodgers, Jr. 2015. White-rot fungal degradation of naphthenic acids. Presented at the 23rd Annual David S. Snipes/Clemson Hydrogeology Symposium. Clemson, SC. March 26, 2015.

Rodgers, J.H., Jr. 2015. Adaptive water resource management and noxious algae management. Presented at the Workshop on Solving Problems Caused by Cyanobacteria and Algae Using Adaptive Water Resource Management. Colorado State University, Ft. Collins, CO, April 7, 2015.

Rodgers, J.H., Jr. 2015. Get to know the algae up close and personal. Presented at the Workshop on Solving Problems Caused by Cyanobacteria and Algae Using Adaptive Water Resource Management. Colorado State University, Ft. Collins, CO, April 7, 2015.

Rodgers, J.H., Jr. 2015. Problem definition and triggers – monitoring, permits, bid documents, etc. Presented at the Workshop on Solving Problems Caused by Cyanobacteria and Algae Using Adaptive Water Resource Management. Colorado State University, Ft. Collins, CO, April 7, 2015.

Rodgers, J.H., Jr. 2015. Case study: Hartwell Lake, SC. Presented at the Workshop on Solving

Problems Caused by Cyanobacteria and Algae Using Adaptive Water Resource Management. Colorado State University, Ft. Collins, CO, April 7, 2015.

Calomeni, A.J. and J.H. Rodgers, Jr. 2015. Responses of a Cyanobacterium (*Planktothrix agardhii*) and a green alga (*Pseudokirchneriella subcapitata*) to a chelated and non-chelated copper algacide. Presented at the 55th Annual Meeting of the Aquatic Plant Management Society, Myrtle Beach, SC. July 12-15, 2015.

Geer, T.D., K.J. Iwinski, A.J. Calomeni and J.H. Rodgers, Jr. 2015. Sediment copper concentrations, in situ benthic invertebrate abundance, and sediment toxicity: Comparison of coves treated with copper-based algacides and untreated coves in a Southern reservoir. Presented at the 55th Annual Meeting of the Aquatic Plant Management Society, Myrtle Beach, SC. July 12-15, 2015.

Iwinski, K.J., A.J. Calomeni, T.D. Geer and J.H. Rodgers, Jr. 2015. Cellular and aqueous microcystin-LR following exposures of *Microcystis aeruginosa* to copper algacides. Presented at the 55th Annual Meeting of the Aquatic Plant Management Society, Myrtle Beach, SC. July 12-15, 2015.

Rodgers, J.H., Jr., K. Wardlaw, T. Geer, A. Calomeni and G.M. Huddleston III. 2015. Control of algae producing taste and odor in the drinking water supply for the Anderson Regional Joint Water System. Presented at the 55th Annual Meeting of the Aquatic Plant Management Society, Myrtle Beach, SC. July 12-15, 2015.

Iwinski K.J., Calomeni A.J., Geer T.D., Rodgers Jr. J.H. November 4, 2015. Cellular and Aqueous Microcystin-LR Following Laboratory Exposures of *Microcystis aeruginosa* to Copper Algacides. Poster presented at the 36th Annual Meeting of the Society of Environmental Toxicology and Chemistry, Salt Lake City, UT.

McQueen, A.D., Kinley C.M., Kiekhaefer, R.L., Calomeni A.J., Rodgers J.H Jr., Castle, J.W., Nov 1-5, 2015. Photocatalytic Degradation of Commercial Naphthenic Acids in Water Using Fixed-film TiO₂. Platform Presentation at the Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC North America) in Salt Lake City, UT.

Kinley C.M., McQueen, A.D., Rodgers J.H Jr., Nov 1-5, 2015. Comparative responses of freshwater organisms to exposures of a commercial naphthenic acid. Poster presentation at the Annual Meeting of the Society of Environmental Toxicology and Chemistry (SETAC North America) in Salt Lake City, UT.

Rodgers, J.H., Jr., A. Calomeni, K. Iwinski, R. Wersal and W. Ratajczyk. 2016. Environmental Issues for Large Operational Programs in North America. 21st Century Challenges in Aquatic Weed Management, presented at the 56th Annual Weed Science Society of America and the 69th Annual Meeting of the Southern Weed Science Society. (February 8 to 11, 2016), San Juan, Puerto Rico.

Iwinski, K.J., A.J. Calomeni, C.M. Kinley, T.D. Geer, and J.H. Rodgers, Jr. 2016. Comparison of Laboratory and Field Responses of a Microcystin Producing Cyanobacterium (*Microcystis aeruginosa*) to a Copper-Based Algaecides. Presented at the 36th Annual Meeting of the Midwest Aquatic Plant Management Society, (March 6-9) Grand Rapids, MI.

Rodgers, J.H., K.J. Iwinski and A.J. Calomeni. 2016. Responses of Starry Stonewort (*Nitellopsis obtusa*) from an Indiana Lake to exposures of copper-based algaecides (Clearigate and Cutrine-Ultra) and flumioxazin (Clipper). Presented at the 36th Annual Meeting of the Midwest Aquatic Plant Management Society, (March 6-9) Grand Rapids, MI.

Geer, T.D. and J.H. Rodgers, Jr. 2016. Laboratory Studies of Sodium Carbonate Peroxyhydrate Toxicity to Freshwater Organisms. Presented at the 36th Annual Meeting of the Midwest Aquatic Plant Management Society, (March 6-9) Grand Rapids, MI.

Calomeni, A.J., K.J. Iwinski, C. Kinley, T.D. Geer, M. Hendrikse. 2016. Predicting Copper Bioavailability in Six-and-Twenty Creek Cove Sediments of Hartwell Lake (Anderson, SC). Presented at the 36th Annual Meeting of the Midwest Aquatic Plant Management Society, (March 6-9) Grand Rapids, MI.

Iwinski, K.J., A.D. McQueen, C.M. Kinley, A.J. Calomeni, T.D. Geer and J.H. Rodgers. 2016. Sediment Copper Concentrations, *in situ* Benthic Abundance, and Sediment Toxicity: Comparison of Coves Treated with Copper-Based Algaecides and Untreated Coves in a Southern Reservoir. Presented at the 36th Annual Meeting of the Midwest Aquatic Plant Management Society, (March 6-9) Grand Rapids, MI.

Calomeni, A.C. and J.H. Rodgers, Jr. 2016. Management Options for *Prymnesium parvum*. Presented at the 35th Annual Meeting of the Western Aquatic Plant Management Society. (March 21 – March 23, 2016) San Diego Del Mar, Del Mar, CA.

Gaspari, D.P., M. Hendrikse, J.W. Castle and J.H. Rodgers, Jr. 2016. Thin film photocatalysis: a method for degrading recalcitrant organic constituents in complex wastewaters. Presented at the 24th Annual Meeting of the David S. Snipes/Clemson Hydrology Symposium. (March 31, 2016) Clemson, SC.

Muller, S.L., J.W. Castle and J.H. Rodgers, Jr. 2016. Cometabolic remediation of a recalcitrant organic compound. Presented at the 24th Annual Meeting of the David S. Snipes/Clemson Hydrology Symposium. (March 31, 2016) Clemson, SC.

Rodgers, J.H., Jr., Wardlaw, K., Geer, T.D., Calomeni, A., Huddleston, G.M. III, Willett, S., Barrington, J., Melton, D. 2016. Reduction of Taste and Odor in Source Water for the Anderson Regional Joint Water System. Presented at the American Water Works Association Sustainable Water Management Conference, Providence, RI, March 7-10, 2016.

Huddleston, G.M. III, Rodgers, J.H., Jr., Wardlaw, K., Geer, T.D., Calomeni, A., Willett, S., Barrington, J., Melton, D., Bowen, M., Spacil, M. 2016. Taste and Odor Control in Source Water for the Anderson Regional Joint Water System. Presented at the South Carolina

Environmental Conference, Myrtle Beach, SC, March 13-15, 2016.

Huddleston, G.M. III, Rodgers, J.H., Jr., Wardlaw, K., Geer, T.D., Calomeni, A., Goldsby, T. 2016. Adaptive Water Resources Management for Problem Algae. Presented at the 38th Annual Alabama Rural Water Association Technical Training Conference, Mobile, AL, March 20-23, 2016.

Rodgers, J.H., Jr., K. Iwinski, A. Calomeni, T. Geer and C. Kinley. 2016. Managing Starry Stonewort (*Nitellopsis obtusa*) in Lake Koronis, Minnesota. Presented at the Koronis Lake Management Association Meeting, Paynesville, Minnesota. April 26, 2016.

Rodgers, J.H., Jr., A. Calomeni, K. Iwinski, T. Geer and C. Kinley. 2016. Copper fate and effects: Use of copper formulations as algaecides and herbicides in aquatic systems. Presented at the Michigan Inland Lakes Convention: Science and Leadership: A formula for successful lake protection and management. Boyne Mountain Resort, Boyne Falls, MI. April 28-30, 2016.

Iwinski, K.J. and J.H. Rodgers, Jr. 2016. Responses of the Cyanobacterium *Microcystis aeruginosa* to Copper-based Algaecides. Presented at the US Algal Toxin Conference 2016, Akron Global Water Alliance, Akron, OH. May 9 – 11, 2016.

Calomeni, A., K.J. Iwinski and J.H. Rodgers, Jr. 2016. Evaluation of Algaecide Applications for Treatment of *Lyngbya wollei* in Lay Lake. Presented at the US Algal Toxin Conference 2016, Akron Global Water Alliance, Akron, OH. May 9 – 11, 2016.

Iwinski, K.J., C.M. Kinley, A. Calomeni, T. Geer and J.H. Rodgers, Jr. 2016. Influence of copper algaecide concentration and formulation on aqueous microcystin-LR degradation. Presented at the 56th Annual Meeting of the Aquatic Plant Management Society, Grand Rapids, MI. July 17- 20, 2016.

Rodgers, J.H., Jr., A. Calomeni, K.J. Iwinski, T. Geer, M. Huddleston, S. Willett, and J. Barrington. 2016. Control of taste and odor producing algae in source water for Anderson Regional Joint Water System. Presented at the 56th Annual Meeting of the Aquatic Plant Management Society, Grand Rapids, MI. July 17-20, 2016.

Geer, T., C.M. Kinley, K.J. Iwinski, A. Calomeni and J.H. Rodgers, Jr. 2016. Influence of dissolved and particulate organic carbon on exposures of and SCP-algaecide and consequent responses of *Microcystis aeruginosa*. Presented at the 56th Annual Meeting of the Aquatic Plant Management Society, Grand Rapids, MI. July 17-20, 2016.

Geer T.D., Kinley C.M., Iwinski K.J., Calomeni A.J., Rodgers Jr. J.H. 2017. Laboratory Studies of Sodium Carbonate Peroxyhydrate Toxicity to Freshwater Organisms. Presented at the 38th Annual Meeting of the South Carolina Aquatic Plant Management Society, Myrtle Beach, SC. January 18, 2017.

Kinley C.M., Geer T.D., Iwinski K.J., Hendriske M.H., Rodgers Jr. J.H. 2017. Density dependence of copper exposures to *Microcystis aeruginosa*: implications for microcystin-LR release. Presentation at the 38th Annual Meeting of the South Carolina Aquatic Plant Management Society, Myrtle Beach, SC. January 18, 2017.

Calomeni A.J., Iwinski K.J., Kinley C.M., Geer T.D., Hendriske M.H., McQueen A.D., Rodgers Jr. J.H. 2017. Factors Influencing Copper Fate Following Algaecide Applications. Presented at the 38th Annual Meeting of the South Carolina Aquatic Plant Management Society, Myrtle Beach, SC. January 18, 2017.

Hendriske M.H., Calomeni A.J., Iwinski K.J., Kinley C.M., Geer, T.D., McQueen A.D., Rodgers Jr. J.H. 2017. A New Perspective on Release of Microcystin from *Microcystis aeruginosa* Following Copper-Based Algaecide Treatment. Platform presentation at the 38th Annual Meeting of the South Carolina Aquatic Plant Management Society, Myrtle Beach, SC. January 18, 2017.

Geer T.D., Calomeni A.J., Kinley C.M., Iwinski K.J., Rodgers Jr. J.H. 2017. Predicting In Situ Responses of Taste and Odor Producing Algae in a Southeastern U.S. Reservoir to a Sodium Carbonate Peroxyhydrate Algaecide Using a Laboratory Exposure-Response Model. Presented at the 37th Annual Meeting of the Midwest Aquatic Plant Management Society. Milwaukee, WI. March 1, 2017.

Kinley C.M., Geer T.D., Iwinski K.J., Hendriske M., Rodgers Jr. J.H. 2017. Density dependence of copper exposures to *Microcystis aeruginosa*: Implications for microcystin-LR release. Presented at the 37th Annual Meeting of the Midwest Aquatic Plant Management Society, Milwaukee, WI. March 1, 2017.

Rodgers Jr. J.H., Calomeni A.J., Iwinski K.J., Kinley C.M., Geer T.D. 2017. Leaky Cyanobacterial Cells and Algaecide Treatments: A Look at the Data and Implications for Decision Making. US EPA Cyanobacterial Harmful Algal Blooms Webinar. May 23, 2017.

Calomeni A.J., Rodgers Jr. J.H. 2017. Characterization of Copper Algaecide (Copper Ethanolamine) Dissipation Rates Following Pulse Exposures. Presented at the Akron Global Water Alliance. USA Water Conference. Akron, OH. June 1, 2017.

Rodgers Jr. J.H., Calomeni A.J. 2017. Intervention to Reduce Taste and Odor in Source Waters for the Anderson Regional Joint Water System. Presented at the Akron Global Water Alliance. USA Water Conference. Akron, OH. June 1, 2017.

Geer T.D., Calomeni A.J., Kinley C.M., Iwinski K.J., Rodgers Jr. J.H. 2017. Predicting In Situ Responses of Taste and Odor Producing Algae in a Southeastern U.S. Reservoir to a Sodium Carbonate Peroxyhydrate Algaecide Using a Laboratory Exposure-Response Model. Presented at the 57th Annual Meeting of the Aquatic Plant Management Society. Daytona Beach, FL. July 17, 2017.

Calomeni A.J., Kinley C.M., Geer T.D., Iwinski K.J., Hendrikse M., Rodgers Jr. J.H. 2017. Relationship Among Aqueous Copper Half-Lives and Responses of Fathead Minnow (*Pimephales promelas*) to a Series of Copper Sulfate Pentahydrate Concentrations. Presented at the 57th Annual Meeting of the Aquatic Plant Management Society. Daytona Beach, FL. July 18, 2017.

Kinley C.M., Geer T.D., Iwinski K.J., Hendriske M., Rodgers Jr. J.H. 2017. Density dependence of copper exposures to *Microcystis aeruginosa*: Implications for microcystin-LR release. Presented at the 57th Annual Meeting of the Aquatic Plant Management Society, Daytona, FL. July 16-19, 2017.

Rodgers Jr. J.H., Geer T.D., Calomeni A.J., Iwinski K.J., Kinley C.M. 2017. Intervening in Major Algal “Blooms” in Florida. Presented at the 57th Annual Meeting of the Aquatic Plant Management Society. Daytona Beach, FL. July 19, 2017.

Geer T.D., Rodgers Jr. J.H., Farnum K. 2017. Managing *Nitellopsis obtusa* (Starry Stonewort) in Lake Koronis, MN: A Pilot Project Using an Integrated Approach. Presented at the 36th Annual Meeting of the MidSouth Aquatic Plant Management Society, Birmingham, AL. November 6-8, 2017.

Geer T.D., Calomeni A.J., Kinley C.M., Iwinski K.J., Rodgers Jr. J.H. Predicting *In Situ* Responses of Taste and Odor Producing Algae in a Southeastern U.S. Reservoir to a Sodium Carbonate Peroxyhydrate Algaecide Using a Laboratory Exposure-Response Model. 2017. Presentation at the 36th Annual Meeting of the MidSouth Aquatic Plant Management Society, Birmingham, AL. November 6-8, 2017.

Geer T.D., Rodgers Jr. J.H. 2017. Techniques for Problematic Algae Management. Presentation at the 36th Annual Meeting of the MidSouth Aquatic Plant Management Society, Birmingham, AL. November 6-8, 2017.

Hendrikse M., Gaspari, D.P., McQueen A.D., Kinley C.M., Calomeni A.J., Geer T.D., Haakensen M., Headley J.V., Rodgers J., Castle J.W. 2017. Mitigating Risks Associated with Oil Sands Process-Affected Waters using a Pilot-Scale Hybrid Constructed Wetland Treatment System. Poster presented at the 38th Annual Meeting of the Society of Environmental Toxicology and Chemistry, Minneapolis, MN. November 12 - 16, 2017.

McQueen A.D., Kinley C.M., Iwinski K.J., Calomeni A.J., Rodgers J.H. 2017. Effects of Acid Volatile Sulfides (AVS) from Na₂S- Amended Sediment on *Hyalella azteca*. Poster presented at the 38th Annual Meeting of the Society of Environmental Toxicology and Chemistry, Minneapolis, MN. November 12 -16, 2017.

Kinley C.M., Geer T.D., Iwinski K.J., Hendriske M., Rodgers Jr. J.H. 2017. Density dependence of copper exposures to *Microcystis aeruginosa*: implications for microcystin-LR release. Poster presented at the 38th Annual Meeting of the Society of Environmental Toxicology and Chemistry, Minneapolis, MN. November 12-16, 2017.

Geer T.D., Calomeni A.J., Kinley C.M., Iwinski K.J., Rodgers J.H. 2017. Predicting In Situ Responses of Taste-and Odor Producing Algae in a Southeastern US Reservoir to a Sodium Carbonate Peroxyhydrate Algaecide. Poster presented at the 38th Annual Meeting of the Society of Environmental Toxicology and Chemistry, Minneapolis, MN. November 15, 2017.

Geer T.D., Rodgers Jr. J.H., McComas S. 2018. Management of *Nitellopsis obtusa* (Starry Stonewort) in a Recently Infested Minnesota Lake Using a Copper-Based Algaecide. Presented at the 19th Annual Meeting of the Northeast Aquatic Plant Management Society, New Castle, NH. January 11, 2018.

Geer T.D., Rodgers Jr. J.H., McComas S. 2018. Management of *Nitellopsis obtusa* (Starry Stonewort) in a Recently Infested Minnesota Lake Using a Copper-Based Algaecide. Presented at the 38th Annual Meeting of the Midwest Aquatic Plant Management Society, Cleveland, OH. February 26 – March 1, 2018.

Rodgers, J.H., T.D. Geer and C. Kinley. 2018. Strategies for Intervening in *Nitellopsis obtusa* (Starry Stonewort) Infestations. Presented at the 38th Annual Meeting of the Midwest Aquatic Plant Management Society, Cleveland, OH. February 26 – March 1, 2018.

Rodgers, J.H. 2018. APMS Update. Presented at the 38th Annual Meeting of the Midwest Aquatic Plant Management Society, Cleveland, OH. February 26 – March 1, 2018.

Rodgers, J.H., T.D. Geer and C. Kinley. 2018. Emerging methods for control of Starry Stonewort (*Nitellopsis obtusa*). Presented at the Aquatic Invasive Species Summit III. Minneapolis, MN. February 28 – March 1, 2018.

John H. Rodgers, Jr. Clemson University, Department of Forestry and Environmental Conservation, Clemson, SC “Presidential Address” Presented at the 58th Annual Meeting of the Aquatic Plant Management Society, Buffalo, NY July 15-18, 2018.

Hendrikse, M., Ciera Kinley, Kyla Iwinski-Wood, Tyler Geer, Andrew McQueen, Alyssa Calomeni, Jenny Liang, Vanessa Friesen, Monique Simair, John H. Rodgers, Jr. Clemson University, Department of Forestry and Environmental Conservation, Clemson, SC, Applied Polymer Systems, Woodstock, GA, U.S. Army Corps of Engineers, Vicksburg, MS, Contango Strategies Ltd., Saskatoon, Saskatchewan, Canada. “Microcystin-LR Degradation Following Copper-based Algaecide Exposures” Presented at the 58th Annual Meeting of the Aquatic Plant Management Society, Buffalo, NY July 15-18, 2018.

Geer, T.D. , S. McComas, and John H. Rodgers, Jr. Clemson University, Department of Forestry and Environmental Conservation, Clemson, SC. Blue Water Science, Saint Paul, MN “Rapid Response to an Early Detection of *Nitellopsis obtusa* (Starry Stonewort) in Lake Sylvia, Minnesota, Using a Copper-Based Algaecide” Presented at the 58th Annual Meeting of the Aquatic Plant Management Society, Buffalo, NY July 15-18, 2018.

Rodgers, J.H., Jr. and T.D. Geer. 2018. APMS Update: A Message from the Immediate Past-President. Presented at the 40th Annual meeting of the South Carolina Aquatic Plant Management Society, North Myrtle Beach, SC October 3-5, 2018.

Geer, T.D., S. McComas, and J.H. Rodgers, Jr. 2018. Rapid Response Due to an Early Detection of *Nitellopsis obtusa* (Starry Stonewort). Presented at the 40th Annual meeting of the South Carolina

Aquatic Plant Management Society, North Myrtle Beach, SC October 3-5, 2018.

Rodgers, J.H., Jr. and T.D. Geer. 2018. Managing *Lyngbya* in Southern Water Resources. Presented at the 37th Annual Meeting of the MidSouth Aquatic Plant Management Society, Chattanooga, TN November 5-7, 2018.

Geer, T.D., S. McComas and J.H. Rodgers, Jr. 2018. Fate and Effects of a Copper-based Algaecide to Mitigate a Recent Invasion of *Nitellopsis obtusa* (Starry Stonewort). Presented at the 39th Annual Meeting of the Society of Environmental Toxicology and Chemistry, Sacramento, CA November 4-8, 2018.

Geer T.D., Rodgers Jr. J.H., McComas S. 2019. Ongoing Management of an Incipient *Nitellopsis obtusa* (Starry Stonewort) Infestation in Lake Sylvania, Minnesota, Using a Copper-Based Algaecide. Presented at the 20th Annual Meeting of the Northeast Aquatic Plant Management Society, Albany, NY. January 9, 2019.

Rodgers, Jr., J.H. and T.D. Geer. 2019. Save our lakes: Intervention in HABs and Invasive Algae in Michigan. Michigan Lake Stewardship Associations, 58th Annual Conference, Crystal Mountain Resort, Thompsonville, Michigan. May 3-4, 2019.

T.D. Geer, S. McComas and J.H. Rodgers, Jr. 2019. Ongoing management of an incipient *Nitellopsis obtusa* (Starry Stonewort) Infestation in Lake Sylvania, Minnesota, using a copper-based algaecide. Michigan Lake Stewardship Associations, 58th Annual Conference, Crystal Mountain Resort, Thompsonville, Michigan. May 3-4, 2019.

Rodgers, Jr., J.H. and T.D. Geer. 2019. A Short Course on Algae Ecology and Management. Presented for UPL at Clemson University. May 15-16, 2019.