

Gregory D. Jennings, PhD, PE
Professor of Biological and Agricultural Engineering
North Carolina State University

Education

Ph.D., 1990, University of Nebraska, Agricultural Engineering (Water Resources)
M.S., 1986, Pennsylvania State University, Agricultural Engineering (Soil & Water Conservation)
B.S., 1984, Pennsylvania State University, Agricultural Engineering (Soil & Water Conservation)
Certificate, 1997, Institute for Systems Leadership, North Carolina State University

Professional Experience

Department of Biological and Agricultural Engineering, North Carolina State University

Professor (2001-present); Associate Professor (1995-2001); Assistant Professor (1990-1995)

- Responsible for statewide Extension education programs in water quality, ecosystem restoration, and watershed management in collaboration with County Extension Agents, University faculty, government agencies, nonprofit organizations, and private-sector partners
- Responsible for collaborative applied research and technology transfer in stream restoration, ecological engineering, and watershed nonpoint source pollution control
- Responsible for directing graduate student research in ecological engineering with focus on stream restoration
- Responsible for developing and teaching undergraduate and graduate courses in ecological engineering, stream restoration, fluvial sediment transport, water quality, and ecohydraulics
- Responsible for developing and teaching professional development workshops and certification training in stream restoration, erosion and sediment control, and watershed management
- Serve as Water Quality Coordinator for the NCSU College of Agriculture and Life Sciences responsible for coordinating interdisciplinary water quality education and research programs

Department of Forestry and Natural Resources, Clemson University

Adjunct Professor (2002-present)

- Provide support for teaching, research, and graduate student education in stream restoration, watershed management, and ecohydraulics

Water Resources Research Institute of The University of North Carolina

Interim Director (2004-2005); Associate Director (2002-2004)

- Responsible for coordinating grant-funded water resources research among faculty at the 16-campus UNC system
- Responsible for coordinating statewide technology transfer activities to support water resource professional development and networking

North Carolina Cooperative Extension Service, North Carolina State University

Associate State Program Leader for Agriculture & Natural Resources (1999 – 2000)

- Responsible for leading Extension education programs in collaboration with University faculty, County Extension Agents, and partner organizations

Professional License

Professional Engineer, North Carolina, #25454

Leadership Responsibilities

USDA CSREES Committee for Shared Leadership – Water Quality, 2000-present

- Represent Land Grant Universities in 8 Southeastern states on National Leadership team responsible for developing funding priorities and partnerships
 - Chair of CSREES National Water Conference Planning Committee, 2003-present
- USDA CSREES Southern Region Water Quality Planning Committee, 1998-present
- Represent NCSU CALS on 13-state committee of Land Grant Universities responsible for coordinating regional extension, education, and research initiatives
 - Chair, 2004
 - Regional Coordination Grant Co-PI (4-year grants), 2001 and 2005
 - Committee Chair: Watershed Restoration, Watershed Education, and Regional Conference Planning Committees
 - Co-developed the 3-day Regional Watershed Academies taught in 9 locations since 2004
- NC Environmental Management Commission, Governor's Appointee, 2002-2003
- Developed policies and regulations for water, air, and land resource management for implementation by NC Department of Environment and Natural Resources
 - Committee Member: Water Quality, Groundwater, and Water Allocation Committees
- NC Sedimentation Control Commission, Governor's Appointee, 2002-2004
- Developed policies and regulations for enforcement of the NC Sediment Pollution Control Act by the NC Division of Land Resources
 - Committee Member: Technical Advisory and Education Committees
- NC Department of Environment and Natural Resources Nonpoint Source Workgroup, 1995-present
- Represent NCSU CALS on 15-agency committee to prioritize resource allocation for nonpoint source pollution control initiatives
 - Allocate EPA Section 319 Grant funds
- NC Department of Environment and Natural Resources Science Advisory Committee, 1998-2001
- Represented NCSU CALS to provide science input to regulatory and management program
- NC Department of Environment and Natural Resources Albemarle-Pamlico National Estuary Program Science and Technical Advisory Committee, 2003-2006
- Developed environmental indicators to assess progress in estuarine protection
- NC Department of Environment and Natural Resources Water Quality Workgroup, 2002-2005
- Allocated state funding to collaborative research between Universities and NC DENR
- NC Department of Environment and Natural Resources Ag Cost-Share Technical Review Committee, 1998-2003
- Recommended best management practice guidance for local Soil & Water Conservation Districts
- NC Division of Emergency Management State Emergency Response Team, 1999-2000
- Responded to emergencies including Hurricane Floyd, September, 1999
- NC Multi-Agency Conservation Team, 1998-2000
- Developed a collaboration plan among NCCES, USDA-NRCS, and NC Division of Soil & Water Conservation
- NC Sea Grant Extension Advisory Committee, 1999-2001
- Provided input to enhance outreach programs of the NC Sea Grant Program
- UNC Water Resources Research Institute
- Associate Director, 2002-2005, and Interim Director, 2004-2005, responsible for managing more than 40 grant awards to research faculty throughout the UNC System and coordinating technology transfer and outreach programs
 - WRI Technical Advisory Committee, 1997-2000
- NCSU CALS Water Quality Coordinator, 1997-present
- Represent CALS Water Quality Program to national, regional, and state organizations
 - Liaison to USDA CSREES National Program Leader for Water Quality

- Coordinate interdisciplinary education and research initiatives among campus and county-based faculty

NCSU Stream Restoration Program Coordinator, 1999-present

- Develop and implement outreach and applied research programs on stream restoration
- Coordinate an interdisciplinary team of 12 grant-funded faculty and graduate students
- Provide technical and program guidance to federal, state, and local agencies implementing stream restoration projects for mitigation and water quality improvement
- Coordinate biennial Southeastern regional conferences to share technical information and build networks among restoration professionals

NCSU NCCES Neuse Education Team Coordinator, 1996-present

- Created 9-member interdisciplinary team of Extension Agents and Specialists to educate Neuse River Basin stakeholders to reduce nutrient inputs as required by state regulations
- Initiate partnerships with agencies, agricultural commodity groups, and citizen groups to develop effective strategies for improving water quality

NCSU NCCES Watershed Education Network Coordinator, 2004-present

- Created 40-member network of Extension Agents and Specialists working on water quality programs throughout North Carolina to share innovative educational programs

NCSU/NCDOT Certification Program for Erosion & Sediment Control Co-coordinator, 2004-present

- Developed and implemented comprehensive training, testing, and certification program in partnership with NCDOT for over 4000 NCDOT employees and contractors

NCSU Water Quality Group, 1990-present

- Participate with faculty, students, and collaborators representing 6 NCSU Departments and 30 external organizations focusing on nonpoint source pollution and watershed monitoring

NCSU CALS Soil and Water Environmental Technology Center Director, 1999-2001

- Created multi-disciplinary faculty team to conduct outreach and applied research focused at the Lake Wheeler Road Field Laboratory

NCSU NCCES Blue Ribbon Commission for Staff Development, 1998-1999

- Participated on a team responsible for developing the Personal and Organizational Development System to enhance program effectiveness

NCSU Graduate School Natural Resources Graduate Program Review Committee Chair, 2005-2006

- Evaluated and recommended enhancements to intercollege Natural Resources graduate degree programs

Professional Associations

American Ecological Engineering Society:

- Planning Committee for 2008 Conference in Blacksburg, VA

American Society of Agricultural and Biological Engineers:

- Ecological Engineering Committee, Session Coordinator, 2007
- Hydrology Group
- Planning Committee for 2004 Specialty Conference on Streams and Wetlands
- Professional Extension Committee, Chair, 1998-1999
- Rural Water Supply Committee, Chair, 1994-1997
- Soil and Water Division Steering Committee, 2000-2004
- Soil and Water Nomenclature Committee, 2006-2007
- Water Resources Group, Chair, 2002-2004
- Young Extension Worker Award Committee, Chair, 2004-2006

American Society of Civil Engineers:

- Environment and Water Resources Institute
- River Restoration Committee

American Water Resources Association:

- NCSU Student Chapter Adviser, 1995-1999, 2006-present

North Carolina Association of Cooperative Extension Specialists:

- President, 1997
- Board of Directors, 1992-1994
- Awards and Recognition Committee Chair, 1992-1994

North Carolina Water Resources Association:

- Board of Directors, 1993-1995, 2002-2005

Soil and Water Conservation Society:

- NC Chapter Membership Chair, 1998-1999
- NC Chapter Special Projects Committee, 1993-1997
- NC Chapter Council, 1993-1995

Professional Recognition

ASABE G. B. Gunlogson Countryside Engineering Award: 2007

NC Association of Cooperative Extension Specialists Award, Neuse Education Team: 2004

NC Sedimentation Control Commission, Governor's Appointee: 2002-2004

NC Environmental Management Commission, Governor's Appointee: 2002-2003

NC Crop Protection Assoc Environmental Stewardship Award for Neuse Education Team: 2001

NCSU Academy of Outstanding Faculty Engaged in Extension, Charter Member: 2000

USDA Secretary's Honor Award for Neuse Education Team: 2000

Soil and Water Conservation Society Chapter Merit Award: 2000

Gaston County Quality of Natural Resources Commission Recognition of Support: 2000

ASAE Educational Aids Blue Ribbon Awards: 2000 (2), 1999, 1996 (2), 1992 (2), 1991 (2), 1989

NCSU Alumni Outstanding Extension Service Award: 1998

NCSU College of Agriculture and Life Sciences Outstanding Extension Service Award: 1998

NC Association of Cooperative Extension Specialists Award, Public Issues Education: 1998

ASAE Nolan Mitchell Young Extension Worker Award: 1997

NC Association of Cooperative Extension Specialists Award, Basinwide Management: 1996

Invited Participant in ASAE Vision 2007 Leadership Conference: 1993

NC Association of Cooperative Extension Specialists Award, Drinking Water Education: 1993

USDA National Needs Doctoral Fellowship: 1986-1989

American Water Foundation Research Fellowship: 1989

Sigma Xi, Scientific Research Society: Inducted 1988

Tau Beta Pi, Engineering Honor Society: Inducted 1983

Alpha Epsilon, Agricultural Engineering Honor Society: Inducted 1983