

## **DONALD L. HAM, PhD**

Principal and Senior Consultant

### Education

1971 Ph.D., Department of Forestry, Duke University Durham, NC

Major: Forest Pathology Minor: Plant Physiology

1967 M.F., School of Forestry, Duke University Durham, NC

Major: Forest Pathology

1965 B.A., William Jewell College Liberty, MO

Major: Biology

### Employment

1985 - Present, Professor, Department of Forest Resources, Clemson University, Clemson, SC

2000 - Present: Visiting Lecturer, Myerscough College, Preston, United Kingdom

1979 - 1985, Associate Professor, Department of Forestry, Clemson University, Clemson, SC

1975 - 1979, Assistant Professor, Department of Forestry, Clemson University, Clemson, SC

1969 - 1975, Plant Pathologist, Bartlett Tree Research Laboratories, Pineville, NC

### Field of Specialization

Urban Tree Care, Urban Forestry

### Teaching Experience

- 1987 - 1997 Spring Semester FOR 309 Urban Tree Care Three credit hours
- 1999 - present Spring Semester FOR 480 Selected Topics in Urban Forestry Two credit hours
- November and December 1998. Various courses in the arboricultural program at Myerscough College, Bilsborrow, Preston, United Kingdom.
- June 2000: Four-week arboriculture course at Myerscough College

### Consulting: Doing Business As *ArborEnterprises* (1985 - 1999); *The Laurus Group* (2000 to present)

- Tree protection planning and design for Clemson University golf course construction.
- Tree protection consultant for City of Columbia, SC, on \$12 million Main Street renovation.
- Tree protection consultant for Centex Homes projects in Greenville, SC.
- Tree protection planning and design for Clemson University Military Plaza.
- Consultant/expert witness for Duke Power Company on cases involving trees and transmission and distribution right-of-way conflicts. Environmental assessment consultant and expert witness in a major transmission right-of-way construction project in North and South Carolina.
- Consultant for South Carolina Electric & Gas Company and Carolina Power & Light Company to evaluate contractor pruning practices.
- Consultant/expert witness for contract utility arboricultural firms in tree appraisal cases.
- Consultant/expert witness in LA Public Service Commission hearing to improve utility distribution line clearance programs.
- Consultant for Duke Power electrical distribution right way vegetation management program and record keeping system.
- Consultant/expert witness for cases involving tree hazards and subsequent failures resulting in personal injury, death, and property damage.

- Consultant for tree protection on private and agency development/construction projects.
- Highway right-of-way tree pruning study.
- Consultant/expert witness for Baltimore Gas & Electric on roadside/electric utility ROW tree pruning
- Assisted Town of McClellanville in developing an urban tree management program.

#### Major National/International Responsibilities with Professional Organization During Recent Years

- Appointed by the Secretary of Agriculture (1992-1994) as one of 15 members of the National Urban and Community Forestry Advisory Council. The Council advises the Secretary and Congress on urban forestry issues, including research needs, cooperative programs, and funding priorities and levels.
- Vice Chair of the Board of Trustees of the International Society of Arboriculture Research Trust.
- Secretary of the *TreesAmerica* Board of Directors
- Member of the Board of Directors, Friends of the Reedy River (Greenville, SC)
- Member of the Board of Directors, SC Vegetation Management Association

#### Professional Membership:

- International Society of Arboriculture (ISA)
- South Carolina Forestry Association
- South Carolina Urban & Community Forestry Council
- Utility Arborists Association (UAA, an ISA professional affiliation)
- Academic Research and Education Academy (AREA, an ISA professional affiliation)

#### Professional Organization Activities and Offices:

- ISA International Development Committee member: 1992, 1993
- ISA Research Trust chair: 1993 – 1998; ISA Research Trust Vice Chair: 1998 - 2000
- ISA Board of Directors member: 1985 - 1992
- ISA Vice President: 1988
- ISA President Elect: 1989 - 1990
- ISA President: 1990 - 1991
- ISA Past President: 1991 - 1992

#### Noteworthy Professional Program Presentations During the Recent Years

- Presentations (totaling 2.5 hours at each of ten workshops): Tree Identification and Selection, Tree Nutrition and Fertilization, Pruning, and Problem Diagnosis. ISA Arborist Certification Workshops in Atlanta, GA (twice); Greensboro, NC; Birmingham, AL; Charleston, SC; Nashville, TN; Baton Rouge and New Orleans, LA: Ft. Lauderdale, Davey and Tampa, FL; and Mobile, AL, 6/92 - 3/94
- Pruning Trees Near Overhead Lines. - Georgia Arborist Workshop, Acworth, GA, 10/92
- Utility Pruning: Effects on Tree Health and Pruning Cycles. Santee Cooper Pruning Seminar, Myrtle Beach, SC, 4/93
- The Tree Within the Urban Infrastructure. Baton Rouge Green, Utility Coordinating Council, LA Office of Forestry Workshop on Trees, Baton Rouge, 4/93
- Pruning Near Utility Lines. Brookgreen Gardens Tree Care Workshop, Georgetown, SC, 2/94
- Arboriculture: An Expanding Profession for Italy and Europe. ISA Italian Chapter Annual Conf., Minoprio, Italy, 4/94
- The Problems and Consequences of Ignoring Scientific Principles. ISA Germany/Austria Annual Conf., Salzburg, Austria, 4/96
- *TreesAmerica*: Creating a Living Legacy. Arlington National Cemetery ceremony honoring President George Bush, 5/96

- Managing Trees on Golf Courses. SC Urban & Community Forestry Conf. Beaufort, SC 9/96
- Managing Tree/Turf Associations. Ohio Nurserymen's Short Course, Columbus OH 1/97
- Directional Pruning. Ohio Nurserymen's Short Course, Columbus, OH 1/97
- Urban Tree Residue: Trash or Treasure. Virginia Landscape and Turf Conf. Virginia Beach, VA 1/97
- *TreesAmerica: A Model Urban Forestry Program*. Robins AFB, GA 1/98
- *Managing Trees for Public Safety*. SC Landscape and Turf Conference. Columbia, SC 1/98
- *Managing Trees for Public Benefit and Safety*. Robins AFB, GA 1/98
- *Differences in the Arboricultural Industry in the United States and the United Kingdom*. Presented to the Myerscough College Student Society of Arboriculture. Bilsborrow, England 1/98
- *Marketing and Using Total Tree and Plant Health Care Strategies for Your Business*. Tree and Soil Health Care Workshop. Acworth, GA 3/98
- *Prescribed Approaches to Roadside Tree and Brush Management*. Virginia Roadside Vegetation Management Conference. Williamsburg, VA
- *Plant Health Care: Changing the Tree Care Paradigm*. Keynote presentation at Plant Health Care Workshop at The Royal Botanic Gardens at Kew, London, England 11/98
- *Using "Information Technology" in the Arboricultural Industry*. Annual general meeting of the UK/Ireland Chapter of the International Society of Arboriculture. Birmingham, England 11/98
- *Prescribed Approaches to Roadside Tree and Brush Management*. SC Vegetation Management Association Conference. Columbia, SC 1/99
- *Tree Growth Control Systems; Managing the Whole Tree; How Trees Die; & Specific Implications of Cultural Treatments and Insults*. Tree Structure, Growth, and Vulnerability in the Urban Environment Workshop. Columbia, SC 2/99
- *Mechanical Design of Trees; Wood Decay and Strength-Loss Determination; Hazard Assessment Process; Demonstration of Diagnostic Equipment and Practical Field Evaluation of Trees*. Managing Trees for Public Safety: Evaluating and Correcting Tree Hazards. Columbia, SC 3/99
- *Mechanical Design of Trees; Wood Decay and Strength-Loss Determination; Hazard Assessment Process; Demonstration of Diagnostic Equipment and Practical Field Evaluation of Trees*. Managing Trees for Public Safety Workshop. Beaufort, SC 8/99

#### Honors and Recognition

- 1993 - Received the International Society of Arboriculture Award of Merit, the highest award presented to ISA members. The ISA is an international organization of approximately 9000 members dedicated to providing leadership in the understanding of trees and proper tree care through initiation and support of arboricultural education and research programs.
- 1999 ISA Southern Chapter Award of Merit - for outstanding, meritorious service in advancing the principles, ideals, and practices of arboriculture in the Southern Chapter.
- 1999 Utility Arborist Association Education Award
- 1999 Southern Extension Forest Resource Specialists Award of Excellence for Exceptional Programming in the area of Regional/National Projects
- Since 1988, a Trustee of the International Society of Arboriculture Research Trust, Chair from 1993 – 1998, and currently Vice Chair for Research. The Research Trust was established in 1975 as a not profit organization to provide funds for arboriculture research and education.

#### Sabbatical Leave

January - June 1991. Extensive travel and speaking commitments while ISA President. Three-week trip to Europe (England, Norway, Sweden, Denmark, Germany, Belgium, and The Netherlands) visiting and working with professionals and speaking at several universities. One-week trip to northern Germany to speak at and attend the ISA Germany/Austria Chapter meeting.

### Selected Publications

- Fraedrich, S.W. and D.L. Ham. 1982. Wood Chip Mulching Around Maples: Effect on Tree Growth and Soil Characteristics. *J. Arbor.* 8:85-89.
- Ham, D.L. 1977. Urban Tree Research in the South. *J. Arbor.* 3:226-228.
- Ham, D. L. 1984. Urban Tree Diseases. In: *Forestry Handbook*. Second Edition, ed. K. F. Wenger, John Wiley and Sons. pp. 932-939.
- Ham, D. L. 1988. Careers in Arboriculture. International Society of Arboriculture. 12 pp.
- Ham, D. L. 1989. Salvage and Use of Hurricane Damaged Timber, Fact Sheet, Cooperative Extension Service, Clemson Univ. 2 pp.
- Ham, D.L. 1994. Trees and Overhead Electric Wires: Proper Pruning and Selection. International Society of Arboriculture. 9 pp.
- Ham, D.L. 1994. Careers in Arboriculture. Dept. of Forest Resources. Clemson Univ. 14 pp.
- Ham, D.L. 1996. Probleme und Konsequenzen der Nichtbeachtung wissenschaftlicher Prinzipien. *Baum-Zeitung*. 30(3):102.
- Ham, D.L. 1997. *TreesAmerica* Championing Trees and Tree Care Form Small Communities to the Olympic Games. *Arbor Age*. 17(8): 30-32.
- Ham, D.L. and J.R. Clark, 1991. Trees And Turf Should Complement: Not Compete. *Jour. of Envir. Turfgrass*. III (1): 1- 2.
- Ham, D.L. and J.R. Clark, 1993. Maintaining Tree/Turf Associations: A Plant Health Care Approach. *Arborist News*. 2(3): 33- 35.
- Ham, D.L. and L.R. Nelson. 1992. Newly Planted Trees: Strategies for Survival. Clemson Univ. Coop. Ext. Serv. Forestry Leaflet No. 17.
- Haque, Mary T., Lolly Tai, and D.L. Ham. 2000. Landscape Design for Energy Efficiency. Clemson Univ. Coop. Ext. EC 706. 53 pp.
- Lilly, Sharon, Denice Froehlich, D. P. Blair, J. R. Clark, D. L. Ham, and K. D. Coder. 1991. Arborists' Certification Study Guide. International Society of Arboriculture. Edited by Dan Neely. Urbana, IL. 150 pp.
- Nelson, L.R. and D.L. Ham. 1992. Tree Health Care: Managing Natural Changes. Clemson Univ. Coop. Ext. Serv. Forestry Leaflet No. 18.
- Porteck, K.G., A.E. Miller, and D.L. Ham. 1995. Comparison of Alternative Maintenance Treatments for an Electric Transmission Right-of-Way on Steep Mountainous Terrain. *J. Arbor.* 3:168-174.
- Smith, Karen, D.L. Ham, A.E. Miller, and T. Chesnut. 1995. Soil Aeration Systems: Do They Work? IN: *Trees and Building Sites: Proceedings of an International Workshop on Trees and Buildings*. Editors: Watson, G.W. and D. Neely. International Society of Arboriculture. Savoy, IL, pp. 17-21.
- Townsend, Karen, and D.L. Ham. 1996. A Plant Health Care Approach to Maintaining Tree/Turfgrass Associations. Dept. of Forest Resources. Clemson University.
- Vaughn, C.D., T.J. Straka, D.L. Ham, R.L. Hedden, and K.W. Thorpe. 1997. Costs Associated with Urban Gypsy Moth Control by Arborists: A Case Study. *J. Arbor.* 23:173 - 180.
- Ham, D.L. 1999. TREE ORDINANCES: Can They Make Sustainable Attainable. Greenville (SC) News.

### Video Productions

- Ham, D.L. and Karen Townsend. 1996. Managing Trees for Public Safety - The Administrator's Responsibility. Dept. of Forest Resources. Clemson University.
- Ham, D.L. and Karen Townsend. 1996. Managing Trees for Public Safety - The Role of Landscape Maintenance Personnel. Dept. of Forest Resources. Clemson University.
- Ham, D.L. and Karen Townsend. 1996. Managing Trees for Public Safety - An Arborist's Guide. Dept. of Forest Resources. Clemson University.