

## **RESUME**

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### **EDUCATION:**

- 1975-1979      University of Massachusetts, Amherst, Massachusetts  
Master of Science, Plant and Soil Sciences Department      May 1979
- 1971-1972      University of Massachusetts, Amherst, Massachusetts  
Eighteen credit hours to qualify for Soil Scientist position  
with the USDA - Soil Conservation Service
- 1962-1967      Miami University, Oxford, Ohio  
Bachelor of Science in Applied Science      May 1967

### **CERTIFICATION:**

- 2006-Present      Soil Evaluator. Certified by the Commonwealth  
of Massachusetts Department of Environmental Protection
- 1995-Present      Certified Title 5 System Inspector, Commonwealth of Massachusetts Department of  
Environmental Protection
- 1987-Present      Certified Professional Soil Scientist and Certified Professional Soil  
Classifier (CPSS/SC), Certification Number: 02703. Certified by the  
American Registry of Certified Professionals in Agronomy,  
Crops and Soils, Madison, Wisconsin
- 1980-Present      Certified Professional Soil Scientist. Certified by the Society of Soil  
Scientists of Southern New England, Storrs, Connecticut
- 1987-Present      Qualified Soil Scientist, Certification Number: 059. Certified by the  
State of New Hampshire Board of Natural Scientists.

### **SPECIAL TRAINING:**

- 1979-Present      Advanced Hydric Soils for Soil Scientists - USDA Natural Resources  
Conservation Service, August 1996
- Regulatory IV - Wetland Identification and Delineation - US Army  
Corps of Engineers, August 1995
- Designing Innovative Septic Systems - Rhode Island On-Site

Wastewater Training Program, October 1995

Directed Study - Geographic Information Systems - Bridgewater State College, Bridgewater, Massachusetts

Soil Taxonomy Workshop, SCS - Durham, New Hampshire

Soil Science Institute, 14 CEUs, Iowa State University, Iowa

Laboratory Data Use, SCS - National Soil Laboratory, Lincoln, Nebraska

Soil Engineering, SCS - National Soil Laboratory, Lincoln, Nebraska

Soil Correlation, SCS - Technical Services Center, Pennsylvania

## **PUBLISHED:**

Authored Barnstable County Soil Survey Report. Published March 1993.

Co-authored Dukes County Soil Survey Report. Published September 1985.

Co-authored Bristol County Soil Survey Report, Southern Part. Published October 1981.

## **EXPERIENCE:**

1/1998-Present Soil Scientist, Self-Employed.

Responsibilities:

- Instructor for the Massachusetts Department of Environmental Protection Certification Program for Soil Evaluators for On-Site Sewage Disposal.
- Consultant/instructor for Connecticut Department of Public Health, Environmental Engineering Program, Soils Training Workshops
- Teach soil course at the University of Massachusetts Amherst.
- Conduct on-site investigations and provide technical reports
- Presenter and trainer for technical workshops
- Expert witness for Town, State and Federal units of government

1993-12/1997 Soil Scientist, Member Technical Team Specializing in Urban Issues, USDA - Natural Resources Conservation Service

Responsibilities:

- Conduct on-site soil investigations and provide technical Services on statewide level
- Provide leadership and technical support to state and federal regulatory personnel on soil interpretations for various land issues
- Train state and federal regulatory staff, and private sector groups in the interpretation and use of soils information

1985-1993 Soil Scientist/Project Leader, USDA - Soil Conservation Service

Responsibilities:

- Provide soil expertise to users of soil survey information within Eastern Massachusetts
- Coordinate and supervise the update of the Plymouth County Soil Survey
- Conduct field soil mapping and compile soil survey maps
- Prepare detailed soil surveys and reports for proposed subdivisions, industrial sites, wildlife reserves, town and state lands

- 1975-1985 Soil Scientist, USDA - Soil Conservation Service, Southeastern Massachusetts
- Coordinate the completion of the field mapping and development of the manuscript for the publication of the Barnstable Country Soil Survey Report
  - Conduct field soil mapping and compile soil survey maps
  - Provide soil expertise to users of soil survey information within Southeastern Massachusetts
- 1976-1977 Graduate Teaching Assistantship (Fall and Spring Semesters), University of Massachusetts, Amherst, MA
- 1972-1975 Soil Scientist, USDA - Soil Conservation Service, Pittsfield and Hadley, MA  
Conduct field soil mapping and compile soil survey maps
- 1971-1972 Draftsperson, USDA – Soil Conservation Service, Amherst, MA
- 1968-1970 United States Marine Corps

### **SPECIAL PROJECTS:**

- 2009-Present Provide soil expert services (Blanket Purchase Agreement) to the US Environmental Protection Agency. Services include: research reference materials, dig test pits, provide soils analysis, produce technical reports, provide expert support services in settlement meetings on extent of wetland violations, etc.
- 1999-Present Conduct field studies and prepare technical reports for use in court litigation for Town, State, and Federal units of government; and private landowners. Retained as an expert witness for court testimony
- 1997- Present Member and former chairperson for the New England Hydric Soils Technical Committee.
- 1990-Present Teach undergraduate/graduate level course, Soil Morphology and Mapping, Division of Continuing Education, Department of Plant and Soil Sciences, University of Massachusetts, Amherst, MA
- 2001-2010 Instructor for US Army Corps of Engineers, Regulatory IV Training Course for Federal Employees within the New England Region
- 1998-2003 Taught undergraduate level course, Soil Identification and Landuse Interpretation, Department of Earth Sciences and Geography, Bridgewater State College, Bridgewater, MA.
- Fall 1998 Taught undergraduate/graduate level course, Soil Morphology and Mapping, College of Continuing Education, University of Rhode Island, South Kingston, RI.
- 1995-Present Lead Instructor for the Massachusetts Department of Environmental Protection, Certification Workshops for Soil Evaluators for On-site Sewage Disposal
- 1992-1993 On interagency loan to the US Environmental Protection Agency as A member of a Technical Team researching three suspected wetland violations. Responsibilities included:
- Investigated, documented and determined the presence and location of hydric soils before and after the alteration/disturbance

- Prepared a technical report for court litigation
- 1991-1992 Member of the Interagency Team assembled to field test in New England the 1991 proposed revisions to the Federal Wetlands Manual. Responsibilities included:
- Identify and document hydric soil conditions at test sites within the six New England states
  - Delineate hydric/non-hydric soil boundaries using criteria from the 1987 and 1989 Federal Wetlands Manual and the 1991 proposed revisions to the Federal Wetlands Manual
- 1989-1990 On interagency loan to the US Army Corps of Engineers, New England Division. Responsibilities included:
- Provide training to COE staff in Soil Science with emphasis on the field identification and delineation of hydric soils
  - Assist in developing Guidelines for Soil Drainage Class criteria to be used in the New England Region to identify hydric soil conditions

### **SPECIAL RECOGNITION:**

- 2006 Soil Science Society of America, 2006 Irrometer Professional Certification Service Award (SSSA recognizes one private sector Soil Scientist each year at their annual meeting)
- 2005 Silver Spade Award for the Advancement of Soil Science, presented by the Society of Soil Scientists of Southern New England.
- 2005 2005 Environmental Service Award, Environmental/Conservation Educator of the Year, presented by the Massachusetts Association of Conservation Commissions.
- 1992 Certificate of Appreciation: Massachusetts SWAT Team. Recognition for framing out and developing an excellent urban/community assistance initiative for eastern Massachusetts
- 1992 Certificate of Appreciation: USDA Recognition: FY 92  
Plymouth County Soil Survey for Outstanding Performance exceeding all aspects of position
- 1992 Plymouth County Conservation District  
Recognition: Special Service to Plymouth County
- 1992 Special Achievement Award - USDA  
Recognition: in Special Recognition for exceptional efforts and leadership to the Massachusetts Training Committee
- 1991 Commendation Award, National Soil and Water Conservation Society, in recognition of distinguished professional achievement and service at the local and state levels in carrying out goals and objectives of the Soil and Water Conservation Society

## **PROFESSIONAL AFFILIATIONS:**

- 1976-Present Society of Soil Scientists of Southern New England  
Vice President 1982-1984, President 1984-1985
- 1984-Present Soil Science Society of America
- 1998-Present Association of Massachusetts Wetland Scientists
- 2004-Present Massachusetts Association of Conservation Commissions

## **EXPERT WITNESS TESTIMONY (July 2005 through July 2013):**

Nancy G. Daniel v. Town of Marshfield Zoning Board of Appeals, Case No. 12 MISC-12-469309-KCL Commonwealth of Massachusetts Land Court, Boston, MA (September 11, 2013). Subject of Testimony: my on-site soil investigations and the use of the USDA, Natural Resources Conservation Service, Soil Survey of Plymouth County. For my work on this project, I was compensated at \$150.00/hour.

Johnson Cranberry Trial on Remand, Civil Action No. 99-12465-EFH, Boston, MA (April 11-12, 2011). Issue: CWA Jurisdiction after Supreme Court ruling in *Rapanos*. Subject of Testimony: my on-site soil investigations and the extent of altered/disturbed hydric soils. For my work on this project, I was compensated at \$105.00/hour.

Commonwealth of Massachusetts vs. Brandywine Corp., Superior Court Department of the Trial Court, Civil Action No. 05-1600 B. Subject of Testimony: my on-site soil investigations and the extent of altered/disturbed hydric soils. For my work on this project, I was compensated at \$95.00/hour.

In the matter of Deutch Donn Corporation v. Westport, Massachusetts. Commonwealth of Massachusetts, Executive Office of Environmental Affairs, Department of Environmental Protection, Office of Appeals and Dispute Resolution, Docket No. 2009-008, File No. SE 80-1727. Subject of Testimony: my on-site soil investigations and the extent of altered/disturbed hydric soils. For my work on this project, I was compensated at \$95.00/hour.

Old Tuck Cranberry Corp. Commonwealth of Massachusetts. Land Court, Boston, MA (July, 2000). Subject of testimony: represented landowner, Scott Ashley, and testified on the suitability of geologic deposits as a source for cranberry bog sand. For my work on this project, I was compensated at \$95.00/hour.