

## CURRICULUM VITA

Department of Civil and Environmental Engineering  
The Citadel, 171 Moultrie Street  
Charleston, SC 29409

Phone (843) 953-7679  
Fax (843) 953-6328  
E-mail [Michael.woo@citadel.edu](mailto:Michael.woo@citadel.edu)

### **Michael H. Woo, Ph.D., P.E.**

#### **Education**

CLEMSON UNIVERSITY, Clemson, South Carolina  
Ph.D. in Civil Engineering, 1985  
(Water Resources Engineering)

CLEMSON UNIVERSITY, Clemson, South Carolina  
M.S. in Civil Engineering, 1981  
(Water Resources Engineering)

UNIVERSITY OF DUNDEE, Dundee, Scotland, United Kingdom  
B.S. in Civil Engineering, 1979

#### **Registration**

Professional Engineer, South Carolina

#### **Experience Summary**

Department of Civil and Environmental Engineering, The Citadel,  
Charleston, SC, Associate Professor 1990-present

Department of Civil and Environmental Engineering, The Citadel,  
Charleston, SC, Assistant Professor 1985-1990

South Carolina Department of Health and Environmental Control - Ocean  
& Coastal Resource Management, North Charleston (consulting engineer),  
SC 2005-2007

Jordan, Jones and Goulding, Inc., North Charleston, SC (consulting  
engineer) 2000 – 2004

Jon Guerry Taylor PE Inc., Mt. Pleasant, SC (consulting engineer) 1991 –  
1999

FLOOD Engineers-Architects-Planners, Inc., Jacksonville, FL Summer  
1989

## **Research Activities**

The Effects of Dredged Spoil Disposal Basins on the Surrounding Areas.

Sub-Surface Movement of Saline Water and Associated Environmental Effects.

Application of Geographic Information Systems (GIS) to land development analysis.

Co-Investigator on an environmental impact assessment of the development of a new mooring pier at the Navy Complex, Charleston, SC.

Summer Intern - Intergovernmental Personnel Act (Mobility Program), U.S. Army Corps of Engineers, Waterways Experiment Station, Coastal Engineering Research Center, Vicksburg, MS. Reviewed and provided summary and conclusion on the effects of jetties on adjacent shorelines.

Co-organized a workshop on establishing the Coastal Hazards Technology Transfer Center for South Carolina.

Conducted an on-site evaluation of coastal structures in South Carolina and for the development of a Uniform Coastal Building Code for South Carolina.

## **Teaching Experience**

### **1990 – PRESENT; THE CITADEL, MILITARY COLLEGE OF SC, CHARLESTON, SC**

Served as Associate Professor in the Department of Civil and Environmental Engineering.

Classes taught: Computer Application in Civil Engineering, Concrete Laboratory, Dynamics, Engineering Economics, Engineering Design and Analysis, Engineering Drawing, Environmental Engineering, Hydrology and Hydraulics, Water Resources, Fluid Mechanics, Statics, Surveying, Surveying Laboratory Geospatial Representation Laboratory and Coastal Engineering.

### **1985 -1990; THE CITADEL, MILITARY COLLEGE OF SC, CHARLESTON, SC**

Served as Assistant Professor in the Department of Civil and Environmental Engineering.

Classes taught: Computer Application in Civil Engineering, Concrete Laboratory, Dynamics, Engineering Economics, Engineering Design and Analysis, Engineering Drawing, Environmental Engineering, Hydrology

and Hydraulics, Water Resources, Fluid Mechanics, Statics, Surveying, Surveying Laboratory Geospatial Representation Laboratory and Coastal Engineering.

**Consulting  
Work  
Experience**

Worked as consultant engineer in the areas of water resources, stormwater systems design and management, hydrology and hydraulics. Have worked extensively in the investigation, analysis and control of stormwater.

**2005-2007 South Carolina Department of health and Environmental Control - Ocean & Coastal Resource Management, North Charleston, SC**

Worked as a part-time reviewer for stormwater management and sediment control permit application for a Stormwater Permitting & Coastal Zone Consistency (CZC) Certification.

**2000-2004 Jordan, Jones and Goulding, Inc., North Charleston, SC**

Worked as a hydraulics and environmental engineer for the firm on a part-time basis.

**1991-1999, Jon Guerry Taylor PE Inc., Mt. Pleasant, SC**

Worked as an associate hydraulics and environmental engineer for the firm since 1991 on a part-time basis.

**1989 (summer) FLOOD Engineers-Architects-Planners, Inc., Jacksonville, FL**

Worked as a hydraulics and environmental engineer.

**Other  
Engineering  
Consulting  
Experience**

Principal engineer for floodplain studies and water surface profile analysis to establish FEMA 100-yr flood elevation, Surfside Beach, South Carolina.

Principal engineer for floodplain studies and water surface profile analysis to establish FEMA 100-yr flood elevation, Columbia, South Carolina.

Principal engineer for hydrodynamic mixing study in a regulatory mixing zone for two proposed marinas at Wando, South Carolina and Johns Island, South Carolina.

Co-investigator on the hydraulic analysis of the Forest Acre/5<sup>th</sup>. Avenue and St. Andrews drainage basins for the City of Charleston, Charleston, South Carolina.

Design engineer for the stormwater drainage system for the Mullet Hall Equestrian Center for the Charleston County Park and Recreation Commission, Johns Island, South Carolina.

Principal design engineer for the stormwater drainage design of two eighteen-hole and executive golf courses for the Belle Terre Golf Course, Myrtle Beach, South Carolina.

Principal investigator for wind and wave analysis of piles for the Fort Sumter Tour Boat Facility, Charleston, South Carolina.

Principal investigator for wind and wave analysis of piles for the Folly Beach Fishing Pier, Folly Beach, South Carolina.

Principal investigator on the effects on the surrounding area groundwater from infiltration of water from dredged spoil disposal basins located next to the Intracoastal Waterway, North Myrtle Beach, South Carolina.

Principal engineer on wetland well-point studies to evaluate one of the criteria that establishes wetland areas, Myrtle Beach, South Carolina.

Principal design engineer for dredge spoil disposal basins located next to the Intracoastal Waterway, Myrtle Beach, South Carolina.

Research investigator on the application of geographic information systems (GIS) to land development analysis, Charleston, South Carolina.

Co-Investigator on an environmental impact assessment of the development of a new mooring pier at the Navy Complex, Charleston, South Carolina.

Summer Intern with the U.S. Army Corps of Engineers, Waterways Experiment Station, Coastal Engineering Research Center. Reviewed and provided summary and conclusion on the effects of jetties on adjacent shorelines, Vicksburg, Mississippi.

Co-organizer for a workshop on establishing the Coastal Hazards Technology Transfer Center for South Carolina, Charleston, South Carolina.

Research investigator on an on-site evaluation of coastal structures in South Carolina and for the development of a Uniform Coastal Building Code for South Carolina, Charleston, South Carolina.

**Computer Skills**

Microsoft Windows Operating System  
Microsoft Office  
Microsoft SQL  
AutoDesk AutoCad  
AutoDesk Civil 3D  
EPA-SWMM (Windows)  
HEC-RAS

**Professional Membership And Honors**

Chi Epsilon  
Sigma Xi  
Sigma Iota Delta  
Tau Beta Pi