

JOEL R. HOWARD, Ph.D.

Forestry/Natural Resource Management/Applied Ecology/Agronomy/Alternative Energy

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SUMMARY

- Thirty years experience in forestry, natural resource management, and applied ecology
- Five years experience in conservation-based land development, water quality design, and green building
- Five years experience in construction site NPDES compliance
- Thirty years college teaching experience
- Proven record as an effective administrator, manager, and educator.
- Excellent oral and written communication skills.
- Extensive experience with computers, computer applications, ArcGIS, and GPS.

EDUCATION

- Ph.D.; Forest Ecology - North Carolina State University, 1986
- M.Sc.; Silviculture - SUNY College of Environmental Science and Forestry, 1978
- B.Sc.; Agronomy - Turf Management - Mississippi State University, 1999
- B.Sc.; Resource Management - SUNY College of Environmental Science and Forestry, 1973
- Adirondack Community College, 1970-1971
- Certificate - New York State Ranger School, 1966

DISCIPLINARY EXPERTISE

- Forestry
- Natural Resource Management
- Applied Ecology
- Agronomy
- Biodiversity and Landscape Ecology
- Soils
- Sustainable Resource Management
- Green Building
- NPDES Objectives & BMPs
- Surveying and Cartography
- Forest Measurements
- Geographic Information Systems
- Global Positioning System
- Oral Presentation
- Written and Oral Argumentation

EMPLOYMENT HISTORY

- 2008 – Present – CEO, Applied Biorefinery Sciences, LLC
- 2007 – 2008 – **Visiting Instructor**, SUNY College of Env. Sci. & Forestry, Ranger School, Wanakena, NY
- 2002 - 2007 – **Senior Natural Resource Manager**, WCI Communities, Inc., Bonita Springs, FL.
Senior Natural Resource Manager responsibilities: guiding construction and management of Sustainable Development Communities and Signature Sanctuary Golf Courses in accordance with practices for conservation of: native vegetation patterns, wildlife species composition, water quality, water use, energy, and materials. Responsible for NPDES technology transfer, and monitoring of NPDES construction site BMP compliance. Project manager for 105-acre constructed wetland
- 2000 - 2002 – **Natural Resource Manager and Assistant Superintendent**, The Old Collier Golf Club (TOCGC), Naples, FL
- 1999 - 2000 – **Assistant Golf Course Superintendent**, Knollwood C.C. , Granada Hills, CA
- 1999 **Augusta National Golf Club**, Augusta, GA. Golf course maintenance
- 1998 **North River Yacht & CC**, Tuscaloosa, AL. Golf course maintenance
- 1997 - 1998 – **Mississippi State University Golf Course**. Golf course maintenance

EMPLOYMENT HISTORY (Cont'd)

1973-1997 – SUNY College of Environmental Science and Forestry, Syracuse, NY

- 1987 - 1997 - **Tenured Assistant Professor and Director**, Summer Program in Field Forestry, SUNY College of Environmental Science and Forestry, Syracuse, NY.
 - * As Assistant Professor, responsible for: teaching, student advising and consulting, university service, public service, research
 - * As Director, Summer Program: coordinate, supervise, or implement all budgetary, academic, food service, physical plant, and forest property functions which comprise or support the Program
- 1991 - 1992 – **Research Scientist** (sabbatical), Weyerhaeuser Company, Columbus, MS
 - * Basic Research: Principle investigator for pilot study designed to assess loblolly pine, second rotation productivity decline
 - * Operational Research:
 - Prescriptions and methods to enhance sustained forest productivity
 - Helicopter GPS navigation to improve forest fertilization efficiency
- 1984 - 1986 - **Instructor and Director**, Summer Program in Field Forestry, SUNY College of Environmental Science and Forestry
- 1982 - 1984 - **Research Associate** (Ph.D. study), North Carolina State University, Raleigh, NC
 - * Principle investigator for a Union Camp sponsored research project to predict productivity for prospective upper coastal plain hardwood plantation sites as a function of chemical and physical site factors
- 1979 - 1982 - **Manager**, Charles Lathrop Pack Demonstration Forest, SUNY College of Environmental Science and Forestry
- 1977 - 1982 - **Instructor and Director**, Summer Program in Field Forestry, SUNY College of Environmental Science and Forestry
- 1974 - 1976 - **Instructor**, Silviculture and Soils, SUNY College of Env. Sci. & Forestry
- 1973 - 1974 - **Graduate Assistant**, Soils, SUNY College of Env. Sci. & Forestry

1972 - 1973 - **Field Surveyor**, Phillips, O'Brien & Gere, Syracuse, New York

1966 - 1970 - **Intelligence**, U.S. Army. Stationed: Fort Dix, NJ and Fort Devens, Mass 1966-1967; Pleiku, Vietnam 1967-1969; Fort Devens, Mass and Vint Hill Farms Station, Warrenton, VA 1969-1970. Honorably discharged 1970 as Specialist E-5

1966 - **Field Surveyor**, O'Brien & Gere Engineering, Syracuse, New York

IMPORTANT AWARDS AND RECOGNITION

- State University of New York, Chancellor's Award for Excellence in Teaching.
- College of Environmental Science & Forestry, Undergraduate Student Association Distinguished Teaching Award.
- President's Scholar, Mississippi State University.
- Best Presentation; S-7 Division, Soil Science Society of America, National Convention.

PERSONAL INTERESTS

- Photography
- Woodworking
- Hiking
- Golf