

JOHN C. CAPECE

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EDUCATION:

- 1987-1994 **Ph.D.**, University of Florida Department of Agricultural and Biological Engineering.
1985-1986 Iowa State University, Department of Agricultural Engineering.
1983-1984 **Master of Engineering**, University of Florida Department of Agricultural Engineering.
1981-1982 **Bachelor of Science in Engineering**, University of Florida Dept. of Agricultural Engineering.
1978-1980 University of South Florida, College of Engineering.

PROFESSIONAL EMPLOYMENT:

- 1999-present **Southern DataStream, Inc.** (water resources consulting firm) LaBelle, Florida.
President. Hydrology and water quality research and other water consulting services.
1994-1999 **University of Florida.** Institute of Food and Agricultural Sciences. Immokalee, Florida.
Assistant Professor, Water quality research, teaching, and extension.
1986-1993 **University of Florida.** Department of Agricultural Engineering, Gainesville, Florida.
Graduate Research Assistant. Pasture lands pollutant transport research.
1985-1986 **Iowa State University.** Department of Agricultural Engineering. Ames, Iowa.
USDA National Needs Fellow. Soil nutrient transport research.
1984-1985 **University Centre of Dschang.** Nat. Advanced School of Agriculture. Cameroon, Africa.
USAID Technical Advisor. Research, classroom instruction, and professional training.
1983-1984 **University of Florida.** Department of Agricultural Engineering. Gainesville, Florida.
Graduate Research Assistant. Runoff estimations methods research.
1980-1982 **U.S. Geological Survey.** Tampa, Florida.
Hydrologic Technician. Flood frequency and stormwater modeling.

NON-PROFIT ORGANIZATIONS:

- 2007 Audubon of Southwest Florida. *2007 Southwest Florida Conservationist of the Year.*
2005-present Glades County Economic Development Council. *Director.*
2000-present Rotary International, District 6960 (Southwest Florida). *2005-2007 Water Issues Chair.*
2007 District 6960 International Service Award. 2005 LaBelle Rotarian of the Year.
2000-2003 Southwest Florida Watershed Council, Ft. Myers, FL. *Director.*
1998-2005 Port LaBelle Utilities Advisory Board, Hendry County, FL. *Glades County Representative*
1995-present Caloosahatchee River Citizens Association., Ft. Myers FL. *Director*
1994-present Indian Students and Scholar Services, Inc., Gainesville FL. *Incorporator, Director.*
1992-1998 Chinese Academic Link, Inc., College Park, Maryland. *Director.*
1991-present Alpha Epsilon Lambda, Inc., Gainesville, Florida. *Incorporator, Executive Director.*
1990-present Grad Services, Inc., Gainesville, Florida. *Incorporator, Secretary-Treasurer.*
1991-present Intelligentsia International, Inc., Gainesville, Florida. *Incorporator, President.*
1986-1990 National Association of Graduate-Professional Students, Inc., Washington, D.C.
Incorporator, Southeast Coordinator, Legislative Director, National President.
1986-1990 United Faculty of Florida, *V.P. for Graduate Assistants, Bargaining Council V.P.*
1985-1992 EBE Services, Dschang, Cameroon, West Africa. *Partner in agricultural bookstore.*

PROFESSIONAL MEMBERSHIPS:

American Society of Agricultural Engineers

American Water Resources Association

CURRENT PROJECTS:

Caloosahatchee River Oxbows Restoration

Design, implementation, and assessment of restoration program for short reaches of the Caloosahatchee River in Hendry County. Funded by South Florida Water Management District and private developers. www.SouthernDataStream.com/oxbows

Port Labelle Utility System

Management of Hendry County water and wastewater utility system planning and construction projects. Funded by Hendry County, Florida. www.HendryUtilities.com

Carbon Sequestration Educational Program

Lecture series on CO2 capture and sequestration issues associated with coal and other power generation. www.CarbonCapture.us

Central Asia Village Water Supply

Development and management of an international service project of Rotary International building water supply systems for villages in Tajikistan and Kyrgyzstan. www.RotaryWater.org

Cattle Ranching Water Quality Best Management Practices Research & Demonstration

Research and demonstration projects funded by Florida Department of Agriculture and Community Affairs, Univ. of Florida, and Florida Dept. of Environmental Protection to study water quality and hydrology of pasture and range management systems at Pelaez Ranch. The goal of the project is to develop sustainable cattle management systems and to reduce the phosphorus load to Lake Okeechobee. www.PelaezRanch.net

Runoff Load Measurement System Development

Creation and deployment of a new, low-cost flow-integrating composite water quality sampler suited for TMDL and other nutrient loading monitoring programs. www.SouthernDataStream.com/monitoring

MacArthur Agro-ecology Research Center (MAERC)

Research and demonstration projects funded by South Florida Water Management District, Univ. of Florida, and Florida Dept. of Environmental Protection to study water quality and hydrology of pasture and range management systems at Buck Island Ranch. www.maerc.net

Caloosahatchee River Citizens Association (Riverwatch)

The program seeks to educate the public in water quality and ecosystem management topics and establish constructive linkages between the agricultural, urban, and environmental communities to address critical water resource issues of the region. www.caloosahatchee.org

Intelligentsia International, Inc. Internship Program

Sponsor of research internships for international university students at the undergraduate and graduate level. www.intelligentsia-international.org

Alpha Epsilon Lambda Development Program

Executive Director of the national honor society for graduate and professional schools students. This relatively young honor society is in the building phase as it works to establish new chapters at U.S. universities and graduate colleges. www.gradschools.org

LaBelle Nature Park & Educational Center

Restoration of a 9-acre urban park area and river section for recreational use and service as regional K-12 environmental education center. www.LaBelleNaturePark.org

PAST PROJECTS:

Queen Bee Farms Water Quality Treatment

Hydrological and water quality monitoring to evaluate a natural wetlands treatment system for removal of phosphorus from streams in farming and ranching areas. www.pastures.org/queenbee

Chandler Hammock Slough Water Quality Treatment

Hydrological and water quality monitoring to evaluate the PhosPhilter™ (iron humate) system for removal of phosphorus from streams in cattle ranching areas. www.pastures.org/chandler

Land Application of Residuals in the Lake Okeechobee Watershed: Phosphorus Considerations

Demonstration project funded by South Florida Water Management District and Florida Department of Environmental Protection to evaluate the phosphorus transport implications of land application of water treatment plant and wastewater treatment plant residuals to pasture lands. www.residuals.ws

Hydrologic and Stormwater Modeling of the Cape Coral Canal System

XP-SWMM model development and simulation for the effects of channel modifications on flood levels in the Gator Slough and other canal systems of Cape Coral. Contract through Lee County Regional Water Supply Authority, Boyle Engineering, and the City of Cape Coral. www.caloosahaatchee.org/capecoral

Suwannee River Basin Water Agricultural Water Use Modeling

Resource planning project to develop basin wide estimates of future water use demands for agricultural operations in the Suwannee River Water Management District. This project included application of the AFSIRS model (University of Florida) and modifications to the model and supporting databases. Results were compared to farm-scale data collection efforts documenting actual agricultural water consumption.

Caloosahatchee Watershed Management Plan

Principal-investigator in a new research project to develop GIS coverages of the Caloosahatchee River Basin in preparation for eventual hydrologic and water quality modeling of the region. In addition to the GIS project, two additional projects were completed: (1) hydrologic and water quality assessment of citrus groves and (2) development of a comprehensive management practices matrix and database for major agricultural land uses of the region.

Caloosahatchee Oxbow Study

Principal investigator in a comprehensive oxbow assessment study of the Caloosahatchee in preparation for a U.S. Army Corps of Engineers restoration program. Data analysis has documented sedimentation and bank erosion effects in the 35 oxbows. Principal investigator on an oxbow water quality survey project funded by the Florida Center for Environmental Studies.

Florida Panther Refuge Water Quality Study

Principal investigator on evaluation of water quality in the Florida Panther Refuge including sample collection and laboratory services for analysis for surface water quality (pesticides, nutrients, and metals).

FGCU-UF/IFAS Joint Research Program

Principal investigator in a joint research and extension project development agreement between UF/IFAS and Florida Gulf Coast University. This project also led to development of a joint FGCU-UF/IFAS water quality laboratory at the FGCU campus.

Big Cypress Basin Model Peer Review

Principal investigator of a SFWMD project to review and evaluate methodologies used by Dames & Moore in developing a hydrologic/hydraulic simulation model for the Big Cypress Basin (Collier Co).

DowElanco Telone Fate Study

Co-investigator on fate study of Telone (1,3-dichloropropene), a potential substitute for methyl bromide. I serve as a member of experiment design and implementation team assembled and funded by DowElanco.

Climatological Data Collection

Co-investigator (1995-96) on climatological data collection at SWFREC.

Thermal Characteristics of Vegetable Production Systems

Co-investigator on study of thermal properties of seedling trays and media and the effects on germination/viability.

Wetland Restoration Study

Co-investigator on wetlands restoration project for isolated wetlands on citrus developments. The project included soil fertility management study on citrus lands and assessment of impacts on wetland areas.

Tropical Soda Apple Control

Cooperator on a study of the effect of composting treatments on Tropical Soda Apple seed viability.

Solarization

Co-investigator on evaluation of solarization techniques as a substitute for methyl bromide fumigation of plastic-mulched soil beds by collecting thermal properties data for soil and heat transport model.