

# **Philip ("Phil") Busey**

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**TURFGRASS SCIENTIST, GOALS:** Application of weed science in the landscape as part of a system to improve environmental quality; quantification and systems optimization.  
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## **SKILLS**

- Communications: Outstanding writer, editor, and public speaker
- Organization: Skillful facilitator of client groups and organizer of large events such as field days
- Problem solving: Experienced in the diagnosis and explanation of plant production problems
- Digital technology: Expert in statistics, databases, computer graphics, layout, and web design
- Cultural literacy: Sensitive to differing communications styles of different groups; traveled in Haiti and most of Latin America; Spanish, conversational (4<sup>+</sup> years); French, 4 years

## **SAMPLE ACCOMPLISHMENTS**

- Discovered an herbicide replacement in golf turf for arsenic-containing MSMA
- Developed long-term study of integrated, non-chemical cultural management of lawns
- Published over 50 refereed, scientific papers on warm-season turfgrasses
- Recognized and named the "Ultradwarf" bermudagrasses important on golf course greens
- Started U.F. academic program Certificate in Environmental Turfgrass Management
- Catalyst behind industry organizations such as Florida Sod Growers Cooperative
- Developed a staging system for filing of herbarium specimens at Missouri Botanical Garden, and created maps and indices in conjunction with the move of the herbarium

## **EDUCATION:**

- Ph.D. in Agronomy and Plant Genetics, 1976, University of Arizona.
- M.S. in Agronomy, 1971, University of Illinois.
- B.S. in Agronomy with Distinction, 1969, Colorado State University.

## **ACADEMIC CLASSES TAUGHT (also teach 5-15 workshops and lectures per year):**

Grass Biology, ORH 4932, 2 credits; Golf and Sports Turf Management, ORH 4223, 2 credits; Turfgrass Culture, ORH 3222C, 4 credits; Genetics, AGR 3003, 3 credits; Turfgrass Science, ORH 4224C, 3 credits; Landscape IPM: Ornamentals and Turf; Landscape and Turfgrass Management, ORH 4236C, 3 credits; Weed Science, PLS4601c, 3 credits.

## PROFESSIONAL EXPERIENCE

- 1996 to present. Associate Professor of Environmental Horticulture, University of Florida Fort Lauderdale Research and Education Center. Weed ecology and control in the landscape.
- 1982 to 1996. Associate Professor of Environmental Horticulture, University of Florida Fort Lauderdale Research and Education Center. Genetics and of turfgrasses.
- 1976 to 1982. Assistant Professor of Ornamental Horticulture, University of Florida Fort Lauderdale Research and Education Center. Genetics and of turfgrasses.
- 1973 to 1976. Graduate Research Associate, Agronomy Department, University of Arizona, Tucson. Cytology; embryo culture; microtechnique and grass anatomy; field and greenhouse management; and Foundation Seed production.
- 1971 to 1973. Herbarium/Research Assistant, Missouri Botanical Garden, St. Louis. Collection expedition to Panama. Wrote keys to and descriptions of families and species (see Croat, T. B. 1978. *Flora of Barro Colorado Island*. Stanford Univ. Press, 943 p.). Coordinated sale and transport of 600 herbarium cases, organized filing of specimens and maps and indices.
- 1970 to 1971. Instructor in Vocational Horticulture, Missouri Botanical Garden, St. Louis. On-the-job training for African-American high school students at risk of dropping out.
- 1969 to 1970. Graduate Research Assistant, Crop Evolution Laboratory, University of Illinois, Urbana, IL. Cytology; field planting; pollination in maize X *Tripsacum* program.
- 1967 to 1968. Landscape Assistant for Gernot Heinrichsdorf, a landscape design and installation company in Colorado Springs, CO. Ball-and-burlapping trees, planting sod, trees, watering.

## SAMPLE PUBLICATIONS

- Busey, P. and D. L. Johnston. 2006. Impact of cultural factors on weed populations in St. Augustinegrass turf. *Weed Sci.* 54:961-967.
- Busey, P. and D. L. Johnston. 2005. Predicting preemergence herbicide effects on overseeded perennial ryegrass (*Lolium perenne*). *Int. Turfgrass Soc. Res. J.* 11:1179-1183.
- Reinert, J. A. and P. Busey. 2005. Response of bahiagrass, *Paspalum notatum*, genotypes to feeding damage by tawny mole cricket, *Scapteriscus vicinus*. *Internat. Turfgrass Res. Soc. J.* 10:767-771.
- Busey, P. 2004. Goosegrass (*Eleusine indica*) control with foramsulfuron in bermudgrass (*Cynodon* spp.) turf. *Weed Technology* 18: 634-640.
- Busey, P. 2003. Bahiagrass, *Paspalum notatum* Flüggé. pp. 331-348 in: Casler, M. D., and Duncan, R. R. (eds.) *Biology, breeding, and genetics of turfgrasses*. John Wiley & Sons, Inc., Hoboken, NJ.
- Busey, P. 2003. Cultural management of weeds in turfgrass: A review. *Crop Science* 43:1899-1911.
- Busey, P. 2003. Reduction of torpedograss (*Panicum repens*) canopy and rhizomes by quinclorac split applications. *Weed Technology* 17:190-194.
- Busey, P. 2003. St. Augustinegrass, *Stenotaphrum secundatum* (Walt.) Kuntze. pp. 309-330 in: Casler, M. D., and Duncan, R. R. (eds.) *Biology, breeding, and genetics of turfgrasses*. John Wiley & Sons, Inc, Hoboken, NJ.
- Busey, P. 2003. Winter survival of St. Augustinegrass cultivars. *HortScience* 38:1439-1440.
- Busey, P., T. K. Broschat, and D. L. Johnston. 2003. Injury to landscape plants by volatile turf herbicides. *HortTechnology* 13:650-653.

## **OTHER PROFESSIONAL ACTIVITIES AND RECOGNITION**

Associate Editor, Applied Turfgrass Science, 2004-present. This is the online journal by the Plant Management Network cooperating with Crop Science Society of America.

Associate Editor, HortScience, 1990-1995. HortScience is a leading horticultural research journal; also Associate Editor, 1990-1991 for the Journal of the American Association for Horticultural Science.

Commitment to Excellence Award, South Florida Education Center, 2002-2003, for SFEC.org web site design and maintenance.

Webmaster and ad hoc meeting organizer, Plant Biologists of South Florida, PBSF.org

"Living Lawn Demonstration Project," \$33,300 internal grant from the Florida Yards and Neighborhoods program, to establish an outdoor turf learning center. July 2003 - July 2004.

Principal Investigator, CSREES Hatch Project FLA-FTL-04066, "Environmental Management of Weeds in Turfgrass," October 1, 2002 - September 30, 2007.

"Distinguishing off-types in Tifway and Tifdwarf bermudagrass," \$66,145 grant from the Florida Turfgrass Association in cooperation with the Florida Golf Course Superintendents Association. Involved DNA-RAPDs identification of offtypes, 1995-97.

"Drought resistance in St. Augustinegrass," \$90,000 grant from South Florida Water Management District, 1987-89.

"Establishment of bahiagrass on rights-of-way," \$36,000 grant from Florida Department of Transportation, 1984-87.

Numerous small (\$3,000 - \$5,000) grants, gifts, and in-kind contributions received each year from companies and associations.

## **PROFESSIONAL AFFILIATIONS**

American Society of Agronomy

Crop Science Society of America; Symposia Committee Member

Forage and Turf Grass Crop Germplasm Committee (national USDA, SAES planning group)

Golf Course Superintendents Association of America; Instructor for Field Seminar

Miami-Dade Horticultural Advisory Committee, Member

Naturescape Broward, Emerald Landscape Awards, Judge; Appointed Member

Nova Southeastern University College of Pharmacy Medicinal Garden Advisory Board

Palm Beach Golf Course Superintendents Association (Honorary Member)

Plant Biologists of South Florida, Webmaster and ad-hoc group facilitator

Sierra Club (Broward County Chapter member and Diversity Committee, former member)

Society for Economic Botany (Reviewer)

South Florida Education Center, Webmaster and Marketing Committee Member

South Florida Golf Course Superintendents Association (Honorary Member)

Weed Science Society of America (Member, Reviewer)