

Charles T. Bryson

Education

- B.S.** Mississippi State University; major, Entomology, 1972.
M.S. Mississippi State University; major Entomology; minor, Botany, 1974.
Ph.D. Mississippi State University; major, Botany; minor, Entomology, 1980.

Research Experience

USDA, ARS, Boll Weevil Research Lab, Mississippi State, Res. Assist., 1968-1972.
Mississippi State University, Entomology Department, Grad. Res. Assist., 1972-1974.
USDA, ARS Crop Sci. Lab, Mississippi State, MS. Research Assistant, 1974.
USDA, ARS Crop Sci. Lab, Mississippi State, MS. Agric. Res. Technician, 1974-1982.
USDA, ARS, South. Weed Sci. Res. Unit, Stoneville, MS, Res. Botanist, 1982-present.

Membership in Professional Societies

American Society of Agronomy	SIDA
Mississippi Academy of Science	Southern Lepidopterists
Mississippi Association of Biologists	Southern Weed Science Society
Mississippi Native Plant Society	The Lepidopterists' Society
MS Sect. American Society of Agronomy	South. Appalachia Botanical Club
Mississippi Weed Sci. Soc.	Weed Science Society America
New England Botanical Club	

Honors and Awards

Mississippi Weed Science Society Outstanding Education Award, 1997.
Mississippi Weed Science Society Distinguished Service Award, 2000.
Mississippi Weed Science Society Outstanding Research Award, 2005
Southern Weed Science Society Distinguished Service Award, 2006.

Professional and Honorary Societies

Weed Science Society of America: Introduced Invasive Weeds Symposium, Chairman 1996; Federal Noxious and Invasive Weed Com., 1997-present & Chair 2005-2007; Plant Name Subcom. of Terminology Com., 1983-1993; 1997-present; Program Com., 1996; Terminology Com., 1996-present; Weed Alert Com., 1983-present.

Southern Weed Science Society: Economic Losses Due to Weeds Com., Chairman 1983-1990; Newsletter Com., 1990-present; Outstanding Young Weed Scientist Com., Chairman 1995; Poster Session, Chairman 1995; Program Com., 1995; Weed Contest Com., 1990-present; Weed Identification Com., 1982-present & Chairman 1995-present.

Association of Southeastern Biologists: Graduate Student Support Award Com, 2008-present.

Southeastern Exotic Plant Pest Council: Board of Directors 2001-2004.

Mississippi Exotic Plant Pest Council: Board of Directors 1999-2004; Pres. 2001-2004.

Mississippi Weed Science Society: Formation Com., 1985-86; Newsletter Editor, 1992-1996; Nominations Com., 1987-1988, 1997-1998; Chairman 1989-1990; 1996-97; Board of Directors 1988-1993; Vice-President and Program Chairman 1993-1994; President 1994-1995; Past-President and Award Com. Chairman 1995-1996.

Mississippi Weed Science Com.: Vice-chair, 1990-1991; Chair 1991-1992.

Mississippi Acad. Sci., Agric. Plant Sci. Div., Vice-Chair 1985-1986; Chair 1986-1987.

Mississippi Association of Biologist, Formation Com., 1985-1987;

Secretary/Treasurer, 1987-1988; Board of Directors 1986-1992.

Mississippi Sustainable Agriculture, Steering Com., 1993-1996; Program Chairman 1993.

Mississippi Cogongrass Taskforce: 2000-present.

Conservation/Water Quality Information Exchange Conference, Program Com. 1994.

S-159 Regional Project, Secretary, 1986; Vice-Chairman, 1987; Chairman, 1988.

S-215 Regional Project, Chairman, 1988.

Southern Biological Control Working Group, Advisory Board, 1987.

Delta Branch Sigma Xi Club, Vice-President and Program Chairman 1992-1993; President 1993-1994.

Entomological Museum Com., Mississippi State, MS, Member 1978-1982.

Mississippi Entomological Museum Associates Com., Chairman 1980-1982.

Research Interests:

In 1982, Dr. Bryson accepted a position with the USDA-ARS Southern Weed Science Laboratory at Stoneville, MS as a Research Botanist. His primary research assignment was to evaluate the long-term effects of herbicides and various tillage production systems on weed populations and cotton growth and yield, to develop improved systems of weed control in cotton, and to determine the effects of rainfall on foliar applied. Since 1997, Dr. Bryson's research has focused on non-native invasive weeds that threaten agricultural crops, forest lands, and urban and natural areas, i.e. tropical soda apple, wetland nightshade, deeprooted sedge, brownscale flatsedge, *Kyllinga* species, etc. He is respected as an authority on the biosystematics, biology, ecology, and control of sedge (Cyperaceae) weeds, prickly nightshades, and cogongrass. Dr. Bryson developed a weed control system for annual wormwood, a potential cash crop for the production of the anti malarial drug, artemisinin. He has developed unique control methodology for purple nutsedge in row crops and cogongrass along rights-of ways and developed a database to differentiate morningglory biotypes, especially those that have developed tolerance to herbicides. Dr. Bryson was senior editor for the *Interactive Encyclopedia of North American Weeds* DVD published in 2004. He has developed a herbarium of over 5,200 species that focuses on weeds and vouchers for various weed research projects throughout the region. This collection includes a world-wide collection of purple nutsedge biotypes, Johnsongrass biotypes, weeds newly discovered in the region, and weed voucher from field experiments and herbicide resistance research. Dr. Bryson has authored or co-authored over 290 peer reviewed publications, book chapters, and abstracts during his tenure with USDA-ARS.