

Donn T. Johnson

Professor,
University of Arkansas, Fayetteville



Current Appointment: 68.15% Research, 25% Service (includes grower/agent education), 20.55% Teaching

Education:

BS	1973	University of Minnesota, Duluth	Biology
MS	1976	Michigan State University	Entomology
Ph.D.	1978	Michigan State University	Entomology

Professional Experience:

University of Arkansas-Fayetteville, Department of Entomology	
Professor of Entomology	1993-date
Associate Professor	1984-93
Assistant Professor	1978-84
Michigan State University-East Lansing, Department of Entomology	
Graduate Research Assistant	1973-78

Awards and Honors:

2002 - John White Team Award - Grape, Grape Juice and Wine Program: Justin Morris, Food Science; James N. Moore, John R. Clark and Keith Striegler, Horticulture; Donn Johnson, Entomology; and Ron Talbert, Crop, Soil, and Environmental Sciences.

2nd Place Masters Presentation - awarded to my Masters student, Jackie McKern, for her presentation at the of the Arkansas Crop Protection Association meeting in Fayetteville (29 November).

Areas of Research/Extension Specialization:

Development and implementation of alternative and organic pest control measures such as testing efficacy of new chemistries (IR-4 Program), mating disruption, host plant resistance against spider mites, use of biorationals, e.g., microbials (*Bt* and *Cyd-X* codling moth granulosis virus), nematodes, plant-derived insecticides, Surround particle film, releasing predatory mites, baited perimeter trap trees to time sprays against plum curculio, and spot spray versus whole planting spray programs. Study chemical ecology of sesiids, scarabs, stink bugs and weevils for development of trapping, mass trapping and attract-and-kill programs. Developing, validating and implementing sampling/degree-day decision-making models/protocols. I enjoy being an integral part of interdisciplinary team(s) that develop and implement well-balanced, holistic, economical, environmentally sound and sustainable Integrated Fruit and Rice Crop Pest Management programs. Part of this enjoyment comes from working with growers, extension personnel, the marketing and processing industry and researchers at the local, regional, and national levels. I also take advantage of opportunities to contribute to the advancement of international fruit IPM programs, as I did in the Republic of Yemen in 1990, India in 1999 and Armenia in 2002-2003.

Publications: Authored or coauthored more than 46 refereed publications.

Selected Publications:

- Rashid, T., D.T. Johnson and J.L. Bernhardt. 2006. Sampling rice stink bug (Hemiptera: Pentatomidae) in and around rice fields. *Environ. Entomol.* (*in press*).
- Horton, D. and D. Johnson (Eds.). 2005. Southeastern peach grower's handbook. University of Georgia College of Agricultural & Environmental Sciences Cooperative Extension Service Bull. 1171.
- Rashid, T, D. T. Johnson and J. L. Bernhardt. 2005. Rice stink bug development relative to temperature. *Southwestern Entomol.* 30: 215-221.
- Rashid, T, D. T. Johnson and J. L. Bernhardt. 2005. Feeding preference, fecundity and egg hatch of rice stink bug on artificial diet, rice and alternate host grasses. *Southwestern Entomol.* 30: 257-262.

- Williamson, J. R. and D.T. Johnson. 2005. Effects of grape berry moth management practices and landscape on arthropod diversity in grape vineyards in the southern United States. HortTechnology 15: 232-238.
- Johnson, D. T. 2003. New and potential grape insect pests: Japanese beetle and multicolored Asian lady beetle. Proc. OK and AR Hort. Industries Show 22: 138-139.
- Hix, R.L., D.T. Johnson and J.L. Bernhardt. 2003. Antennal sensory structures of *Lissorhoptrus oryzophilus* (Coleoptera: Curculionidae) with notes on aquatic adaptations. Coleopt. Bull. 57:85-94.
- Johnson, D. T., P. G. Mulder, Jr., B. D. McCraw, B. A. Lewis, B. Jervis, B. Carroll and P. J. McLeod. 2002. Trapping plum curculio, *Conotrachelus nenuphar* (Herbst) (Coleoptera: Curculionidae), in the Southern USA. Environ. Entomol. 31: 1259-1267.
- Rashid, T., D. T. Johnson, D. C. Steinkraus and C. R. Rom. 2001. Effects of microbial, botanical, and synthetic insecticides on Red Delicious apple arthropods in Arkansas. HortTechnology 11: 615-621.
- Hix, R. L., D. T. Johnson and J. L. Bernhardt. 2001. Trapping adult rice water weevils, *Lissorhoptrus oryzophilus* Kuschel (Coleoptera: Curculionidae) with aquatic barrier traps. Environ. Entomol. 30: 770-775.
- Hix, R. L., D. T. Johnson and J. L. Bernhardt. 2000. Swimming behavior of an aquatic weevil, *Lissorhoptrus oryzophilus* (Coleoptera: Curculionidae). FL Entomol. 83:316-324.
- Hix, R. L., D. T. Johnson and J. L. Bernhardt. 2000. An aquatic barrier trap for monitoring adult rice water weevils (Coleoptera: Curculionidae). FL Entomol. 83: 189-192.
- Johnson, D. T., B. A. Lewis and J. D. Whitehead. 1999. Grape scale (Homoptera: Diaspididae) biology and management on grapes. J. Entomol. Sci. 34: 161-170.
- Johnson, D. T. and B. A. Lewis. 1993. Grape phylloxera (Homoptera: Phylloxeridae): comparison of leaf damage to grape cultivars grown in Arkansas. J. Entomol. Sci. 28:447-452.
- Johnson, D. T. and H. S. Vishniac. 1991. The role of *Trichosporon cutaneum* in eliciting aggregation behavior in *Cotinis nitida* (Coleoptera: Scarabaeidae). Environ. Entomol. 20 (1): 15-21.
- Vishniac, H. S. and D. T. Johnson. 1990. Development of a yeast flora in the adult green June beetle (*Cotinis nitida*, Scarabaeidae). Mycologia 82: 471-478.

Contracts and Grants (Total = \$920,734):

Since 2000, I was the principal or co-investigator on 20 grants. Funding agencies included: USDA Southern Region IPM Program, USDA Southern Region IPM Center, USDA Southern Region SARE, USDA Research and Education Southern Region SARE, USDA Viticulture Consortium-East, Missouri Grape & Wine Advisory board, Arkansas Rice Research & Promotion Board, IR-4 Program, USDA/MAP Armenia, Gerber Products Co., Bayer CropSciences, St. Gabriel Laboratories, and UA-CES Diversified IPM grant for County Agents.

Professional Service:

2002-2003, IPM Consultant for FAO/World Bank/USDA in Armenia (12 wks)
 1999, IPM Consultant, Farmer-to-Farmer Program, Winrock International/USAID in India (3 wks)
 1990, Fruit IPM Specialist, Volunteer, VOCA-USAID, Rep. of Yemen (5 wks)
 Entomological Society of America

Teaching Experience:

I have developed and taught senior level/graduate courses in Insect Pest Management (since 2001), Insect Behavior and Chemical Ecology (even years since 1980) and Introduction to Applied Entomology. I have served as major advisor to 8 M.S. and 3 Ph.D. students and currently am major advisor to 1 M.S. student.

January 24, 2006