ROGER N. WILLIAMS

Professional Preparation

Texas Tech University	Agricultural Education	B.S.	1957
Louisiana State University	Entomology	M.S.	1964
Louisiana State University	Entomology	Ph.D.	1966

Appointments

1982-present: Professor, Dept. of Entomology, OARDC/OSU, Wooster, OH
1974-1982: Associate Professor, Dept. of Entomology, OARDC and OSU, Wooster, OH
1968-1974: Visiting Assistant Professor, OARDC/Ohio State University, University of São Paulo Agricultural School, Piracicaba, São Paulo, Brazil
1966-1968: Research Scientists, IRI Research Institute, Salvador, Bahia, Brazil
1962-1966: Graduate Research Assistant, Louisiana State University, Baton Rouge, LA

Top Honors and Awards

Alpha Zeta - National Agricultural Fraternity
Gamma Sigma Delta - The Honor Society of Agriculture
Fellow of the Ohio Academy of Science.
Recognized for contributions in founding and continued support of the Sociedade Entomológica do Brasil.

Program capsules

Research: Integrated management of small fruits. Seeking better long term pest management strategies for insects attacking small fruits. The long term goal is for sustainable fruit production. Integrated Pest Management of fruits and vegetables in Ecuador, Costa Rica, and the Azores.
Teaching: Occasional guest lecturing in courses in Columbus, mentoring of graduate students in insect management approaches to fruit research.
Extension/Outreach: Regular schedule of meetings and presentations to fruit growers, extension recommendations particularly for the insects attacking Small Fruits

Three Most Important Scholarly Accomplishments, Last Five Years

- Development of strategies to manage the multicolored Asian lady beetle, *Harmonia axyridis* (Pallas) new insect pest of grapes and raspberries in eastern North America.
- Initiate and fund the development of an attractant for the rose chafer, *Macrodactylus subspinosus.* This attractant has been proven successful for the management of the rose chafer eliminating the need for pesticides. In addition, this lure has been effective in capturing other *Macrodactylus* pests throughout North, Central and South America.
- Involved in the collaborative projects that discovered and developed ways to drastically reduce reliance on pesticides for the control of leafminers in snow peas in Guatemala and two insect pests of potatoes in Ecuador.

Five Selected Publications (98 peer reviewed)

Williams, R. N. and G. F. Shambaugh. 1988. Grape phylloxera (Homoptera: Phylloxeridae) biotypes confirmed by electrophoresis and host susceptibility. Ann. Entomol. Soc. Am. 81(1):1-5.
Williams, R. N., M. S. Ellis and R. J. Bartelt. 1995. Efficacy of Carpophilus

aggregation pheromones on nine species in northeastern Ohio, and identification of the pheromone of C. brachypterus. Entomologia Experimentalis et Applicata. 77:141-147.
Williams, R.N., D.T. Johnson and E. Priesner. 1999. *Synanthedon rileyana* (H. Edwards) response to selected clearwing pheromone blends. J. Entomol. Soc. 34(2): 219-224.
Williams, R.N., D. S. Fickle, T.P. McGovern, and M.G. Klein. 2000. Development of an attractant for a scarab pest, *Macrodactylus subspinosus* (F.) (Coleoptera: Scarabaeidae). J. Econ. Entomol. 93: 1480-1484.
Heath, J.J., R. N. Williams, and P. L. Phelan. 2001. Aggregation and male attraction to Feeding virgin females in *Macrodactylus subspinosus* (F.) (Coleoptera: Scarabaeidae) Melolonthinae). Environ. Entomol. 31(6): 934-940.

Five Selected Grants ($ 508,000 total; $ 508,000 as 1st PI)

-IPM CRSP/Ecuador 3 Integrated Pest Management Collaborative Research Support Program Projects: Andean Fruits; Potatoes; & Plantain: 2001 – 2004. USAID/Washington. $115,000.

-Developing an Integrated Pest Management System for Insect and Mite Pests in Ohio Vineyards. July 1, 2001 – June 30, 2005. Ohio Grape Industries Committee: $173,000.
-Development of rearing techniques and biological control methods for the grape root borer, *Vitacea polistiformis* (Harris). July 1, 2001 - Dec. 31, 2005. $110,000 Viticulture Consortium East, funded by USDA through Cornell Univ.
-Scarab beetles as threats to horticultural crops in Ecuador and the United States. Sept. 31, 2001 – Sept. 30, 2004. $48,900; USDA Agricultural Research Service.
-Integrated Pest Management Program for Horticultural Crops in the Azores, Portugal and the United States. 9/24/2003 - 8/19/2008, $26,000. Funded by DOD (US Department of Defense) through the USDA ARS Office of International Research Programs. Reducing Environmental Risks Through Pest Management. OSU International Affairs/DOE (US Department of Energy) Grant $35,280, June 1, 2004 - May 31, 2005.

Key Collaborations

*Biological Control of soil insects attacking fruit crops through the use of entomopathogenic nematodes, in collaboration with the Grewal Nematology Laboratory.
*EARTH University/OSU Collaborative Program on Environmental Research In the Humid Tropics. Reducing Environmental Risks Through an Agroecosystem Pest Management.
*Ecuador Ministry of Agriculture (INIAP). The goal of IPM CRSP is to develop and implement a replicable approach to IPM that will help reduce agricultural losses due to pests; damage to national agroecosystems; and pollution and contamination of food and water supplies.

Additional Synergistic Activities

Member of the International Committee of the Wooster Kiwanis Club aimed at helping children in needy nations through the Heifer Project which requires the recipients to help others get started in raising all sorts of animals from goats to camels.