

CELESTE WELTY



Professional Preparation

- State University of New York,
College of Environmental
Science and Forestry at Syracuse Biology B.S Magna cum laude 1978
- University of Maine Entomology M.S. 1984
- Cornell University Entomology Ph. D. 1988

Appointments

- 1996-present: Associate Professor, Department of Entomology, OSU, Columbus, OH.
- 1990-1996: Assistant Professor, Department of Entomology, OSU, Columbus, OH.
- 1988-1989: Postdoctoral Researcher, IPM Office, OSU, Columbus, OH.
- 1985-1988: Graduate Research Assistant, Cornell University, NYSAES, Geneva, NY.
- 1984-1985: Graduate Teaching Assistant, Cornell University, NYSAES, Ithaca, NY.
- 1984: Assistant Regional Project Manager, USAID, Dakar, Senegal.
- 1981-1983: Graduate Research Assistant, University of Maine, Orono, ME.
- 1980-1981: County Project Officer, USAID, Banjul, The Gambia.
- 1978-1980: Crop Protection Officer (Peace Corps Volunteer), Yundum, The Gambia.

Honors and Awards

- Educational Materials Award (best extension publication in the U.S.), American Society for Horticultural Science, Extension Division, to R. C. Funt, M. A. Ellis, R. Williams, D. Doohan, J. Scheerens, & C. Welty, 2001, for 'Brambles - Production, Management, and Marketing' (OSU Extension Bulletin 782).

Program capsules

- **Extension/Outreach:** Develop educational programs and materials for growers, crop consultants, and extension agents on how to diagnose and control pests and how to implement integrated pest management for fruit and vegetable crops.
- **Research:** Develop pest monitoring techniques and pest management strategies with a focus on efficient chemical control and enhancing role of natural enemies. Current emphasis on mites in apples, caterpillars in peppers, and beetles in pumpkins.
- **Teaching:** Teach or co-teach Economic Entomology and Insect Pest Management (ENT460), winter quarters starting 2003; advise two graduate students.

Three Most Important Scholarly Accomplishments, Last Five Years

- Developed a pest trapping network in Ohio with emphasis on developing the technical expertise of crop consultants and extension agents who are interested in pest management.
- Lead the entomology component of interdisciplinary studies on management of cucumber beetles as vectors of bacterial wilt
- Revised existing course in Economic Entomology with emphasis on new laboratory exercises with live insects.

Five Selected Publications

- Welty, C. 2001. Orchard spray rates: how to determine the amount of pesticide and water to use in your orchard. Ohio State Univ. Extension Bull. 892. 21 pp.
- Funt, R.; M. A. Ellis; C. Welty. 1997. Midwest small fruit pest management handbook. Ohio State Univ. Extension Bull. 861. 198 pp.
- Welty, C. 1995. Monitoring and control of European corn borer (*Ostrinia nubilalis*; Lepidoptera: Pyralidae) on bell peppers in Ohio. J. Agric. Entomol. 12(2-3): 145-161.
- Welty, C.; S. Alcaraz; & H. E. Ozkan. 1995. Evaluating insecticide application techniques to control aphids in vegetable leaf crops. HortTechnology 5(4): 317-326.
- Thayer, B.; R. M. Riedel; M. A. Bennett; C. Welty; J. R. Jasinski; & R. J. Precheur. 2001. Complementing TOMCAST by developing a comprehensive tomato integrated pest management program. J. Vegetable Crop Production 7(2): 57-73.

Five Selected Grants

- USDA/ NAPIAP. Pumpkin virus management. C. Welty, R. J. Precheur, R. M. Riedel. \$48,767. 1994-1996
- USDA/NCR/IPM. Tomato pest management. R. M. Riedel, C. Welty, M. A. Bennett. \$74,000. 1996-1998.
- US-EPA. Tomato IPM demonstration. C. Welty, R. M. Riedel, M. A. Bennett. \$17,450. 1998.
- Ohio Vegetable & Small Fruit Research and Development Program. Bacterial wilt management. C. Welty, R. M. Riedel, R. J. Precheur. \$18,250. 2003.
- USDA/PMAP. Pepper pest management. C. Welty, S. A. Miller, M. A. Bennett, R. C. Derksen. \$165,038. 2003-2005.

Professional Service Highlights, Last 5 Years

- Panel member for reviewing proposals for CSREES/IPM Grants Program, Southern Region, 2001 and 2002.
- Reviewer for journals: Environmental Entomology, Scientia Horticulturae, J. American Pomological Society.

Key Collaborations

- Member of the Midwest Fruit Workers Group, which produces annual spray guides for tree fruit and small fruit used in Ohio and 8 other States. The entomology subset of the group has conducted a multi-state research project on codling moth management during the past 2 years.
- Member of the newly formed Great Lakes Vegetable Workers Group, which is replacing the former Tri-State Vegetable Group. The group meets once per year to share information on research and extension programs.
- Member of the OSU Vegetable Team and OSU Fruit Team, which coordinate extension activities and some research activities within Ohio.