

UNITED STATES DEPARTMENT OF AGRICULTURE
COOPERATIVE STATE RESEARCH, EDUCATION, AND SERVICE

OMB Approved 0524-0024
Expires 03/31/2002

SUMMARY VITA - TEACHING PROPOSAL

Give the following information for each key professional associated with the project, beginning with the Project Director. Do not exceed the three-page form. If necessary, provide selected examples deemed most appropriate for purposes of this grant application. Photocopy additional forms as needed.

1. Name Jerome F. Grant	Title Professor	Birthdate 10/14/55 <hr style="width: 80%; margin: 0 auto;"/> (month) (day) (year)
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Education (Begin with baccalaureate or other initial professional education and include postdoctoral training)

Institution and Location	Degree/Certification	Year Conferred	Field of Study
Berea College, Berea, KY Univ. of Kentucky, Lexington, KY Clemson University, Clemson, SC	B.A. M.S. Ph.D.	1977 1980 1983	Biology Entomology Entomology

2. Professional Experience (Beginning with present position, list employment by title, affiliation, and dates in last 10 years)

1985-Present Professor (1998), Associate Professor (1991), Assistant Professor (1985) (80% Research, 20% Teaching),
(Dec.) The University of Tennessee.

3. Teaching Experience (Cite titles and summary catalog descriptions of undergraduate and graduate level courses for which you have had primary responsibility for teaching in last 5 years)

Diseases and Insects of Ornamental Plants (3 cr.) - Symptoms, identification and management of diseases and insect pests that affect plants in greenhouse, nursery, and landscape environments.
Integrated Pest Management (3 cr.) - Principles and application of biological, cultural, genetic, behavioral, and chemical methods of control to maintain pest populations below economic threshold levels.
Advanced Integrated Pest Management (1 cr.) - Continuation of Integrated Pest Management - Advantages and limitations to the real-life incorporation of integrated pest management into on-farm situations.
Graphics in Science (1 cr.) - Development, design, and use of graphical and tabular information for publication and/or oral presentation or display.

4. Thesis Committees Chaired (Cite titles and dates of Master's and doctoral theses completed or in progress by graduate students for whom you served as committee chair in last 5 years)

Note: Our department does not offer a Ph. D. program

Otto, Daniel. Current. Incidence of Japanese beetle, *Popillia japonica*, and its associated natural enemies in Tennessee. (M.S.)
Moughler, Gary B. 1999. Biological control agents of the gypsy moth, *Lymantria dispar* L., in Tennessee: Presence, impact, and role in future management programs. (M.S.)

Name Jerome F. Grant

4. Thesis Committees Chaired (cont.)

- Puckett, Derek L. 1999. Impact of prescribed burning on arthropod communities associated with Egger's sunflower and the grassland barrens of middle Tennessee. (M.S.)
- Mizell, Randall S. 1998. Comparisons of early-season thrips control and their effects on cotton plant parameters. (M.S.) [Academic Advisor]
- Van Tol, Nancy B. 1998. Influence of Bt cotton on beneficial arthropod populations. (M.S.) [Academic Advisor]
- Jones, Randy S. 1997. Evaluation of Bt cottons for Heliothine complex control and yield potential in Tennessee. (M.S.) [Academic Advisor]
- Wiggins, Gregory J. 1997. Temporal incidence, progression, and impact of beech scale, *Cryptococcus fagisuga* Lindinger, and beech bark disease in the Great Smoky Mountains National Park. (M.S.)
- Bannister, Jennifer M. 1995. Impact of selected insecticides on *Lygus lineolaris* and beneficial arthropods associated with cotton. (M.S.) [Academic Advisor]
- Copley, K. J. 1995. Distribution and establishment of introduced parasitoids of the alfalfa weevil in Tennessee. (M.S.)
- Holt, Lee H. 1995. Incidence of arthropods infested with conidia of *Discula destructiva* Redlin in forest and cage environments. (M.S.) [co-Advisor with Dr. Mark Windham]
- McCaskill, Amy J. 1995. Host race evolution in the pyralid moth, *Dicymolomia julianalis* (Walker), on selected hosts in Tennessee. (M.S.)
- Neitch, S. 1995. Insect communities on anthracnose-infected dogwoods and their role in disease epidemiology. (M.S.) [co-Advisor with Dr. Mark Windham]
- Vance, Robert A. 1995. Incidence and life history of beech scale, initiator of beech bark disease, in the Great Smoky Mountains National Park. (M.S.)

5. Grants (Cite title, amount, source, and period of support for research and teaching/instructional projects directed or co-directed in last 10 years)

- Lambdin, P. L. and J. F. Grant [equal authorship]. 1997. Rare, threatened, and endangered (RTE) terrestrial invertebrate survey. CH2M Hill [\$130,000 (two-year project)].
- Lambdin, P. L. and J. F. Grant [equal authorship]. 1996. Assessment of exotic and invasive plants along roadways in Tennessee: Potential for biological control. Tennessee Department of Transportation [\$120,000 (three-year project)].
- Grant, J. F. 1995. Beech scale and beech bark disease in the Great Smoky Mountains National Park. Carlos C. Campbell Memorial Fellowship Research Proposal [\$2,750].
- Grant, J. F., P. L. Lambdin, L. Kok, R. McDonald, D. Buntin, and R. Hudson. 1993. Development and implementation of sustainable area-wide weed management practices for maximum land utilization. Sustainable Agriculture Research and Education/Agriculture in Concert with the Environment Competitive Grants Program [\$165,000 (three-year funded project; extended to 1997)].
- Lambdin, P. L. and J. F. Grant. 1993. Biodiversity of the insect fauna in mature northern red oak stands in the Great Smoky Mountains National Park. Great Smoky Mountain Conservation Association, Carlos Campbell Memorial Foundation [\$3,000].
- Lambdin, P. L. and J. F. Grant. 1993. Biodiversity of the insect fauna in mature red oak stands in the Great Smoky Mountains National Park (GSMNP). Great Smoky Mountains Conservation Assoc. [\$2,000].
- Lambdin, P. L. and J. F. Grant. 1992. Arthropod fauna of mature northern red oaks in the Great Smoky Mountains National Park (GSMNP). GSMNP [\$35,000 (three-year funded project)].
- Grant, J. F. and P. L. Lambdin. 1991. Release and establishment of parasitoids of cereal leaf beetle, *Oulema melanopus*, in Tennessee. USDA APHIS [\$13,500].
- Lambdin, P. L. and J. F. Grant. 1991. Release and establishment of *Chilocorus kuwanae* in Tennessee. USDA APHIS [\$12,000].
- Lambdin, P. L. and J. F. Grant. 1991. Composition of the arthropod fauna in Fraser fir stands in the Great Smoky Mountains National Park (GSMNP). GSMNP [\$10,000].
- Windham, M. T., E. Graham, R. Trigiano, R. Auge, P. Gresshoff, G. McDaniel, J. F. Grant, and W. Witte. 1991. Ecological, molecular, and physiological investigations of dogwood anthracnose. USDA-CSRS Special Grants Program [\$129,769; my share = \$6,400].
- Lambdin, P. L. and J. F. Grant [equal authorship]. 1990. Release and establishment of two species of weevils for control of musk thistle in Tennessee - Phase II. Tennessee Department of Transportation and Federal Highway Administration [\$134,000 (four-year funded project)].
- Grant, J. F. 1990. Impact of insecticide-based management strategies on populations of pest and non-target organisms, and yield of alfalfa. Southern Regional Pesticide Impact Assessment Program [\$7,500].

6. Professional Honors (Last 10 years)

Chancellor's Citation for Extraordinary Community Service, The University of Tennessee, 1999.
W. S. Overton Faculty Merit Award, College of Agricultural Sciences and Natural Resources, The University of Tennessee, 1998.
Service Recognition Award, Entomological Society of America, 1997.
Research Award of Merit, Gamma Sigma Delta, The University of Tennessee, 1996.
Service Recognition Award, Southeastern Branch, Entomological Society of America, 1996, 1998.
Teaching Award of Merit, Gamma Sigma Delta, The University of Tennessee, 1993.
Teaching/Learning Merit Certificate, The University of Tennessee, 1993.
Service Recognition Award, Student Affairs Committee, Southeastern Branch Entomological Society of America, 1995, 1993, 1989.
T. J. Whatley Award (Outstanding Young Scientist), Institute of Agriculture, The University of Tennessee, 1992.

7. Publications (List in chronological order the titles and complete references for printed publications in last 5 years)

*Graduate Students under my direct supervision

- Grant, J. F. and P. L. Lambdin. 1999. Not all weevils are evil, pp. 31-32. IN 1999 Integrated pest management in the southern region. Univ. Kentucky Coop. Ext. Serv., Lexington, KY.
- Hed, B. E., M. T. Windham, and J. F. Grant. 1999. Survival of conidia of *Discula destructiva* in frass of convergent lady beetle. Plant Disease 83:806-809.
- *Copley, K. C. and J. F. Grant. 1998. Statewide distribution of parasitoids of the alfalfa weevil in Tennessee. J. Agric. Entomol. 15:43-51.
- Grant, J. F. and C. S. Murphree. 1998. Kids + bugs = entomological fun. Proc. Tenn. Entomol. Soc. (The Firefly) 12:20.
- Grant, J. F., P. L. Lambdin, and R. A. Follum. 1998. Infestation levels and seasonal incidence of the meadow spittlebug, *Philaenus spumarius* (L.) (Homoptera: Cercopidae), on musk thistle, *Carduus nutans* L., in Tennessee. J. Agric. Entomol. 15: 83-91.
- Grant, J. F., P. L. Lambdin, L. Kok, D. Buntin, and R. McDonald. 1998. Regional project directed at area-wide control of musk thistle in the southeastern United States. Proc. South. Nur. Assoc. Res. Conf. 42:461-462.
- *Holt, H. T., J. F. Grant, and M. T. Windham. 1998. Incidence of arthropods infested with conidia of *Discula destructiva* Redlin on flowering dogwoods in the natural environment. J. Entomol. Sci. 33:329-335.
- Poole, S. K., J. F. Grant, and S. Thompson. 1997. Animal Classes: Insects. A Teacher's Guide. This text accompanies a videotape produced by National Geographic Television. 6 pp.
- *Colby, D., M. T. Windham, and J. F. Grant. 1996. Transportation and viability of conidia of *Discula destructiva* on *Hippodamia convergens*. Plant Disease 80:804-805.
- Grant, J. F., P. L. Lambdin, and L. R. Barber. 1996. Tree improvements: Understanding and managing insect pests. Tenn. Agri. Sci. 180:46.
- *Landau, D., J. F. Grant, and P. L. Lambdin. 1996. *Dicymolomia julianalis* (Lepidoptera: Pyralidae) on selected hosts in eastern and middle Tennessee. Environ. Entomol. 25:25-28.
- *Powell, S. D., J. F. Grant, and P. L. Lambdin. 1996. Incidence of above-ground arthropod species on musk thistle in Tennessee. J. Agric. Entomol. 13: 17-28.
- *Colby, D., M. T. Windham, and J. F. Grant. 1995. *Hippodamia convergens* (Coleoptera: Coccinellidae) dissemination of dogwood anthracnose fungus (Melanconiales: Melanconeeae). Environ. Entomol. 24:1075-1079.
- Grant, J. F., M. T. Windham, D. M. Colby, D. S. Neitch, and H. L. Holt. 1995. Insects and dogwood: Do casual visitors help spread dogwood anthracnose? Tenn. Agri. Sci. 175:30-34.
- *Sudbrink, Jr., D. L. and J. F. Grant. 1995. Wild host plants of *Helicoverpa zea* and *Heliothis virescens* (Lepidoptera: Noctuidae) in eastern Tennessee. Environ. Entomol. 24:1080-1083.

Video Publications

The Animals - Insects. National Geographic Society Film, 30-minute video - part of a series titled "The Animals" targeted to sixth grade students. Served as *Entomological Consultant* during development, production, and completion; entomological expertise was provided during all stages of production of this educational videotape (1996).

Life in the Forest. National Geographic Society Film, 30-minute video - part of a series titled "Let's Take a Walk" targeted to fifth to eighth grade students. Served as *Entomological Consultant* during development, production, and completion; entomological expertise was provided during all stages of production of this educational videotape. I also played a role in this film as the uncle of the young girl who was spending the day in the forest; I was her guide to 'life in the forest' (1993).