

*Curriculum Vitae*  
FREDERICK P. BAXENDALE

**ADDRESSES**

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Department of Entomology  
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Lincoln, NE 68516  
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**ACADEMIC RECORD**

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Department: Entomology  
Academic Rank: Professor – July 1996  
Tenure: July 1991  
Assignment: 1984-1988 – 100% Cooperative Extension  
1989-Present – 75% Nebraska Extension  
25% Agricultural Research Division  
Courtesy Appointments: Department of Agronomy and Horticulture 1990-Present  
Professor of Forensic Science 2009  
Graduate Faculty: Member 1984; Fellow 1995

**PROFESSIONAL RECORD**

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*Education*

Ph.D.	Texas A&M University	1983	Entomology
M.S.	Texas A&M University	1980	Entomology
B.S.	Cornell University	1977	Entomology
A.S.	Finger Lakes Community College	1975	Mathematics and Science

*Professional Experience*

Jan 2013-Present	Professor and Director of Forensic Science	University of Nebraska-Lincoln
Aug 2006-2012	Professor and Extension Specialist – Entomology	University of Nebraska-Lincoln
April 2005-August 2006	Professor and Interim Head	University of Nebraska-Lincoln
1996-April 2005	Professor and Extension Specialist – Entomology	University of Nebraska-Lincoln
1989-1996	Associate Professor and Extension Specialist – Entomology	University of Nebraska-Lincoln
1984-1989	Assistant Professor and Extension Specialist – Entomology	University of Nebraska-Lincoln
Spring 1983	Graduate Teaching Assistant	Texas A&M University
1978-1982	Graduate Research Assistant	Texas A&M University
1977-1978	Research Technician II	Cornell University
Spring 1976	Undergraduate Teaching Assistant	Cornell University

**MILITARY SERVICE**

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United States Air Force, Air Weather Service, 1969-1973 – Honorably Discharged

## **AWARDS, HONORS, AND OFFICES**

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### *Awards*

- Award of Excellence, President, North Central Branch, ESA 2012
- Golden Leaf Award, Backyard Farmer, Nebraska Nursery and Landscape Association 2012
- Gold Award for Service to Agriculture awarded to Backyard Farmer, Nebraska Broadcaster's Association 2012
- Distinguished Educational Service Award, University of Nebraska 2011
- Entomology Educational Project Award, *Insect Borers of Shade Trees and Woody Ornamentals*, EC10-1580, Board Certified Entomologists of Mid-America 2011
- Distinguished Achievement Award in Extension, Entomological Society of America 2008
- Distinguished Achievement Award in Extension, North Central Branch, ESA 2008
- Gold Award for Service to Agriculture awarded to Backyard Farmer, Nebraska Broadcaster's Association 2008
- Excellence in Extension Award - North Central Region, National Association of State Universities and Land-Grant Colleges (NASULGC) 2007
- First Place, 16<sup>th</sup> Annual TOCA Communications Writing Award, Commercial Publications: Ornamental Feature Article: *On The Level: Thresholds For Insects* by John Fech and Fred Baxendale published in *Golf Course Management*, Turf and Ornamentals Communicators Association (TOCA) 2006
- Citizens Certificate of Merit, Lincoln Police Department 2005
- First Place, 15<sup>th</sup> Annual TOCA Communications Writing Awards Contest, Commercial Publications: Ornamental Feature Article: *How About That Weather?* by Fred Baxendale and John Fech published in *Golf Course Management*, Turf and Ornamentals Communicators Association (TOCA) 2005
- Presidential Award for Outstanding Service, Nebraska Turfgrass Foundation 2003
- Educator of the Year for 2002, Nebraska Professional Lawn Care Association 2003
- IANR Team Award for Effort Excellence, Festival of Color, University of Nebraska 2000
- Tree Planters State Award for Backyard Farmer, Nebraska Statewide Arboretum 1999
- Herbert H. Davis Recognition Award to the Turfgrass Science Team, Nebraska Golf Hall of Fame 1999
- Epsilon Sigma Phi Team Award for Urban Pest Management Team, Epsilon Sigma Phi 1999
- Recognition Award in Urban Entomology, Entomological Society of America 1998
- Chester I. Walters "Extra Mile" Award, Nebraska Cooperative Extension Association 1998
- Recognition Award in Urban Entomology, North Central Branch, ESA 1998
- *Integrated Turfgrass Management for the Northern Great Plains*, EC97-1557, Certificate of Excellence, ASA Educational Materials Awards, American Society of Agronomy 1997
- Excellence in Team Programming Award for Backyard Farmer, Nebraska Cooperative Extension 1995
- Excellence in Team Programming Award for Urban Pest Management, Nebraska Cooperative Extension 1995
- Extension Award of Merit, Nebraska Chapter of Gamma Sigma Delta 1995
- Distinguished Service Award, Nebraska Cooperative Extension Association 1994
- *Integrated Management Guide for Nebraska Turfgrass*, EC92-1557:
  - Blue Ribbon Award, ASAE Educational Aids, American Society of Agricultural Engineers 1993
  - Certificate of Excellence, ASA Educational Materials Awards, American Society of Agronomy 1995
  - Extension Educational Aids Award, American Society for Horticultural Science 1995
  - Entomology Educational Project Award, Board Certified Entomologists of Mid-America 1996
- AK-SAR-BEN Service to Community Award (Honorable Mention) for Backyard Farmer, Nebraska Broadcasters Association 1993
- IANR Team Award for Effort Excellence, Turfgrass Science Team, University of Nebraska 1991
- Outstanding Young Professor Award (Finalist), Lincoln Jaycees 1988
- Midwest Agronomic Report Service Award for Best MARS Reports 1987
- Outstanding New Specialist Award, Nebraska Cooperative Extension Association 1987
- John Henry Comstock Award for Outstanding Graduate Achievement, ESA 1983
- Outstanding Graduate Student Award, Southwestern Branch, ESA 1983
- Outstanding Specialized Observer Award, 4th Weather Wing, Air Weather Service, USAF 1970

### *Honors*

- Who's Who in Agriculture Higher Education 2003
- Named Admiral in the Great Navy of the State of Nebraska by Governor Mike Johanns 2000
- Appointed Entomology Foundation Counselor, Entomological Society of America 2000-09
- Invited Judge, Student Competition at Entomology Society of America Meeting 1996, 98, 00, 02, 05
- Invited Member, Southern Region IPM Grant Review Panel 1996
- Invited Member, Turfgrass Science Program Review Team, Clemson University 1995
- Invited Judge, Bee Culture Professional and Open Classes, Illinois State Fair 1991-92
- Invited Judge, Bee Culture Open Class, Nebraska State Fair 1987-Present
- Invited Judge, American Beekeeping Foundation Essay Contest 1984-94
- Alumni Sketch in the State University of New York, publication "A Measure of Excellence" 1985
- Graduated with Distinction, Cornell University 1977
- Dean's List, Cornell University – all semesters 1975-77
- Graduated with Highest Honors, Finger Lakes Community College 1975
- Dean's List, Finger Lakes Community College – all semesters 1973-75

### *Elected/Appointed Offices*

- Elected President North Central Branch of the Entomological Society of America 2010-2013
- Elected Committee for Policy on Appointment and Promotion IANR 2007-10
- Elected Promotion and Tenure Committee, Department of Entomology 1996-99, 2007-10
- Elected Faculty Advisor, Lawrence Bruner Entomology Club 1984-86, 2002-04
- Elected Executive Committee Member-at Large, North Central Branch of ESA 2001-03
- Elected President Specialist Section, Nebraska Cooperative Extension Association (NCEA) 2000-01
- Elected to Nebraska Cooperative Extension Association Board of Directors 1987-89, 1996-98
- Elected Director-at-Large, Mid-America Chapter of Board Certified Entomologists 1994-95
- Elected to University of Nebraska-Lincoln Faculty Senate 1986-89
- Appointed Nebraska Extension Promotion and Tenure Committee 1999-02, 2008-11
- Appointed Cooperative Extension Dean's Advisory Committee 2002
- Appointed Program Co-Chair Annual Meeting, North Central Branch of ESA 2001-02
- Appointed Advisory Member, Nebraska Sod Producer's Association 1994-Present
- Appointed Board of Directors, Nebraska Turfgrass Foundation 1989-06
- Appointed Nebraska Golf Course Superintendent's Association 1988-Present
- Appointed Extension Entomology Coordinator 1985-86, 1987-93
- Appointed Consultant, Mid-Plains Poison Control Center 1985-Present
- Appointed to Advisory Committee (ad hoc) to the CES Dean and Director 1985

### *Professional Forensic Entomology Consultations*

- Omaha Police Department: Case# 74720F (Homicide, Amber Harris) 2006
- Lincoln Police Department: Case #A4-032906 (Homicide, Carl Bitner) 2004
- Lincoln Police Department: Case #A4-002092 (\*Homicide, Rodrigo De la Rosa) 2004
- \* **Daubert Certified as an Expert Witness in Forensic Entomology**
- Lincoln Police Department: Case #A1-102235 (Homicide, James Hagan) 2003
- Nebraska State Patrol: Case #2003-0903-15828 (Homicide, Jane Doe) 2003
- Lincoln Police Department: Case #A1-112185 (Suicide, Kenneth Yost) 2002
- Lincoln Police Department: Case #A1-089173 (Homicide, Marie Hall) 2002

### *Professional Organizations*

- American Academy of Forensic Sciences (AAFS)
- Board Certified Entomologists, Mid-America Chapter
- Eastern Nebraska Honey Producer's Association
- Entomological Society of America
- International Association for Identification, Nebraska Chapter
- Kansas Entomological Society

- Nebraska Cooperative Extension Association (NCEA)
- Nebraska Golf Course Superintendent's Association (NGCSA)
- Nebraska Professional Lawn Care Association (NPLCA)
- Nebraska Sod Producer's Association (NSPA)
- Nebraska Sports Turf Manager's Association (NeSTMA)
- Nebraska Sustainable Agricultural Society
- Nebraska Turfgrass Association

#### *Honorary Academic Societies*

- Gamma Sigma Delta (Agriculture)
- Epsilon Sigma Phi (Extension)
- Phi Sigma, Biological Honor Society
- Phi Beta Delta, International Scholars Honor Society
- Sigma Xi, The Scientific Research Society

#### *Professional Certifications*

- Nebraska Certified Commercial Pesticide Applicator 1984-Present
- Board Certified Entomologist 1979-2001

#### *Civic and Social Activities*

- Merit Badge Counselor, Boy Scouts of America 1986-Present
- Member, Westminster Presbyterian Church
- Member, Sheridan, Irving, Southeast PTOs 1984-98
- Volunteer, American Cancer Society 1987-89
- Volunteer, American Heart Association 1988-89
- Scout Master, Boy Scouts of America, Troop 125, Williamson, NY 1967-69
- Invited speaker for various youth functions (4-H, FFA, BSA), public school classes, and civic groups
- Consulted on a regular basis by various farm journals, magazines, consultants, and agribusiness representatives for information on insect problems associated with field and forage crops, stored grain, range and pasture, fruit and vegetables, ornamentals, lawns, and dwellings. Also consulted on insects of medical and forensic importance, and those contaminating processed foods.

## EXTENSION ENTOMOLOGY ACCOMPLISHMENTS

My extension program is designed to enable stakeholders (extension staff, professional turfgrass and landscape managers, commercial horticulturalists, criminal investigators, and the general public) to develop, use and/or deliver research-based entomological information to improve their IPM practices. Emphasis is on the promotion of effective and environmentally-responsible IPM strategies for the insect and mite pests affecting turfgrasses, landscapes, and other horticultural plantings.

### **PUBLICATIONS RELATED TO EXTENSION**

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#### *Extension Circulars*

1. Keith, D.L., L.L. Peters, J.F. Witkowski, **F.P. Baxendale**, J.B. Campbell, A.F. Hagen, L.W. Andersen, G.D. Johnson, K.J. Jarvi, and S.D. Danielson. 1985. Field Crop Insect Control Guide for Nebraska: EC85-1509: Corn and sorghum; EC85-1511: Alfalfa, soybeans, and small grains; EC85-1537: Specialty crops - sugarbeets, dry beans, sunflowers, alfalfa seed, vetch, potatoes, onions. Univ. of Nebr., Coop. Extension.
2. **Baxendale, F.P.**, D.L. Keith, L.L. Peters, J.F. Witkowski, J.B. Campbell, A.F. Hagen, L.W. Andersen, S.D. Danielson, G.D. Johnson, K.J. Jarvi, and J.A. Kalisch. 1986. Field Crop Insect Control Guide for Nebraska: EC86-1509: Corn and sorghum; EC86-1511: Alfalfa, soybeans, small grains, range and

- pasture; EC86-1537: Specialty crops - sugarbeets, dry beans, sunflowers, alfalfa seed, vetch, potatoes, onions. Univ. of Nebr., Coop. Extension.
3. Keith, D.L., **F.P. Baxendale**, L.L. Peters, J.F. Witkowski, J.B. Campbell, A.F. Hagen, S.D. Danielson, K.J. Jarvi, R.C. Seymour, and J.A. Kalisch. 1987. Field Crop Insect Control Guide for Nebraska: EC87-1509: Corn and sorghum; EC87-1511: Alfalfa, soybeans, small grains, range and pasture; EC87-1537: Specialty crops - sugarbeets, dry beans, sunflowers, alfalfa seed, vetch, potatoes, onions. Univ. of Nebr., Coop. Extension.
  4. Dix, M.E., J.E. Pasek, M.O. Harrell, and **F.P. Baxendale**. 1987. Common Insect Pests of Trees in the Great Plains. EC86-1548. Univ. of Nebr., Coop. Extension.
  5. **Baxendale, F.P.**, S.D. Danielson, J.F. Witkowski, J.B. Campbell, L.L. Peters, A.F. Hagen, D.L. Keith, K.J. Jarvi, R.C. Seymour, and J.A. Kalisch. 1988. Field Crop Insect Management Guide for Nebraska: EC88-1509: Corn and sorghum; EC88-1511: Alfalfa, soybeans, small grains, range and pasture; EC88-1537: Specialty crops - sugarbeets, dry beans, sunflowers, alfalfa seed, vetch, potatoes, onions. Univ. of Nebr., Coop. Extension.
  6. Danielson, S.D., **F.P. Baxendale**, R.J. Wright, J.F. Witkowski, J.B. Campbell, L.L. Peters, G.L. Hein, A.F. Hagen, K.J. Jarvi, R.C. Seymour, and J.A. Kalisch. 1989. Insect Management Guide: EC89-1509: Corn and sorghum; EC89-1511: Alfalfa, soybeans, small grains, range and pasture; EC89-1537: Specialty crops - sugarbeets, dry beans, sunflowers, vetch, potatoes, onions. Univ. of Nebr., Coop. Extension.
  7. **Baxendale, F.P.**, D.L. Keith, and J.A. Kalisch. 1989. Insecticide Recommendations for Garden Vegetables. EC89-1552. Univ. of Nebr., Coop. Extension.
  8. **Baxendale, F.P.** and J.A. Kalisch. 1989. Insect Management Guide for Garden Vegetables. EC89-1553. Univ. of Nebr., Coop. Extension.
  9. Wright, R.J., S.D. Danielson, J.F. Witkowski, G.L. Hein, L.L. Peters, J.B. Campbell, **F.P. Baxendale**, A.F. Hagen, K.J. Jarvi, R.C. Seymour, and J.A. Kalisch. 1990. Insect Management Guide for Corn and Sorghum. EC90-1509. Univ. of Nebr., Coop. Extension.
  10. Danielson, S.D., R.J. Wright, J.F. Witkowski, G.L. Hein, J.B. Campbell, L.L. Peters, A.F. Hagen, **F.P. Baxendale**, K.J. Jarvi, R.C. Seymour, and J.A. Kalisch. 1990. Insect Management Guide for Alfalfa, Soybeans, Wheat, Range and Pasture. EC90-1511. Univ. of Nebr., Coop. Extension.
  11. Hein, G.L., R.J. Wright, **F.P. Baxendale**, S.D. Danielson, J.F. Witkowski, J.B. Campbell, L.L. Peters, A.F. Hagen, K.J. Jarvi, R.C. Seymour and J.A. Kalisch. 1990-1992. Insect Management Guide for Sugarbeets, Dry Beans, Sunflowers, Vetch, Potatoes, and Onions. EC-1537. Univ. of Nebr., Coop. Extension.
  12. de Shazer, S.A., T.P. Riordan, **F.P. Baxendale**, and R.E. Gaussoin. 1992. Buffalograss: A Warm-Season Grass Species for Turf. EC92-1245. Univ. of Nebr., Coop. Extension.
  13. Hodges, L., **F.P. Baxendale**, and D.S. Wysong. 1992. Growing Squashes and Pumpkins for Food and Ornamentation. EC92-1248. Univ. of Nebr., Coop. Extension.
  14. Gaussoin, R.E., **F.P. Baxendale**, J.E. Watkins, and S.E. Hygnstrom. 1994. Pesticide Selection Guide for Nebraska Professional Turfgrass Managers. EC94-1558. Univ. of Nebr., Coop. Extension.
  15. Steinegger, D.H., **F.P. Baxendale**, J.E. Watkins, and A. Greving. 1994. Roses. EC79-1206. Univ. of Nebr., Coop. Extension.
  16. **Baxendale, F.P.** and R.J. Wright. 1996. Insect Pest Management Strategies for Yards and Gardens. EC96-1555. Univ. of Nebr., Coop. Extension.
  17. **Baxendale, F.P.**, D.L. Keith, and J.D. Carstens. 2002. Pesticide Selection Guide for Insect and Mites Affecting Woody Ornamentals and Herbaceous Perennials in Nebraska. EC02-1566. Univ. of Nebr., Coop. Extension.
  18. **Baxendale, F.P.**, T.M. Heng- Moss, and C.K. Osterhol. 2005. Pesticide Selection Guide for Insect and Mites Affecting Woody Ornamentals and Herbaceous Perennials in Nebraska. EC05-1566-S. Univ. of Nebr., Coop. Extension.
  19. Streich, A.M., R.E. Gaussoin, L.J. Giesler, and **F.P. Baxendale**. 2006. Turf and Pest Management for Golf Courses in Nebraska. EC1253. Univ. of Nebr. Extension.
  20. **Baxendale, F.P.**, T.M. Heng-Moss, J.A. Kalisch, and L. Ulrich, eds. 2009. Insectigator: Bug or Insect -- Do You Know The Difference? 4H4110. Univ. of Nebr. Extension.
  21. Kalisch, J.A. and **F.P. Baxendale**. 2010. Insect Borers of Shade Trees and Woody Ornamentals.

22. Streich, A.M., A.D. Timmerman, J.A. Kalisch, S.M. Vantassel, **F.P. Baxendale**, and S.E. Hygnstrom. 2011. Landscape Diagnostic Guide for Problems Affecting Woody Ornamentals and Herbaceous Perennials. EC1260. Univ. of Nebr. Extension. 196 p.

#### *NebGuides*

1. Steinegger, D.H., J.E. Watkins, A.K. Vidaver, and **F.P. Baxendale**. 1985. Care for African Violets. G74-182. Univ. of Nebr., Coop. Extension.
2. **Baxendale, F.P.**, D.S. Wysong, and D.H. Steinegger. 1986. Home Fruit Spray Schedules. G76-292. Univ. of Nebr., Coop. Extension.
3. **Baxendale, F.P.** 1987. Sod Webworm. G75-231. Univ. of Nebr., Coop. Extension.
4. **Baxendale, F.P.** 1987. Bluegrass Billbugs. G75-236. Univ. of Nebr., Coop. Extension.
5. Keith, D.L., **F.P. Baxendale**, and S.T. Kamble. 1987. Ants. G83-649. Univ. of Nebr., Coop. Extension.
6. Hein, G.L., **F.P. Baxendale**, J.B. Campbell, A.F. Hagen, and J.A. Kalisch. 1989. Russian Wheat Aphid. G89-936. Univ. of Nebr., Coop. Extension.
7. Steinegger, D.H., J.E. Watkins, and **F.P. Baxendale**. 1989. Growing Dahlias. G74-189. Univ. of Nebr., Coop. Extension.
8. Witkowski, J.F. and **F.P. Baxendale**. 1989. Corn Insects: A Decision Making Guide. G89-904. Univ. of Nebr., Coop. Extension.
9. Lindgren, D.T., D.H. Steinegger, and **F.P. Baxendale**. 1989. Organic Gardening in the Backyard. G81-548. Revised December 1989. Univ. of Nebr., Coop. Extension.
10. Steinegger, D.H., **F.P. Baxendale**, and J.E. Watkins. 1991. Guide to Growing Houseplants. G91-1022. Univ. of Nebr., Coop. Extension.
11. Steinegger, D.H., **F.P. Baxendale**, G.L. Horst, and D.T. Lindgren. 1991. Conserving Water in the Landscape. G91-1061. Univ. of Nebr., Coop. Extension.
12. **Baxendale, F.P.** and D.L. Keith. 1992. Boxelder Bugs. G75-237. Univ. of Nebr., Coop. Extension.
13. **Baxendale, F.P.** 1992. White Grubs in Turf. G92-1085. Univ. of Nebr., Coop. Extension.
14. Ellis, M.D. and **F.P. Baxendale**. 1992. Getting Started in Beekeeping. G92-1104. Univ. of Nebr., Coop. Extension.
15. Keith, D.L., **F.P. Baxendale**, and J.A. Kalisch. 1992. Elm Leaf Beetle. G92-1107. Univ. of Nebr., Coop. Extension.
16. Danielson, S.D. and **F.P. Baxendale**. 1993. Corn Cutworms. G93-1153. Univ. of Nebraska, Coop. Extension.
17. **Baxendale, F.P.** and D.L. Keith. 1993. Avoiding Honey Bee Losses When Using Insecticides. G93-1174. Univ. of Nebr., Coop. Extension.
18. **Baxendale, F.P.**, D.L. Keith, and J.A. Jones. 1994. Borers of Shade Trees and Ornamental Plants. G94-1210. Univ. of Nebr., Coop. Extension.
19. Keith, D.L. and **F.P. Baxendale**. 1994. Iris Borer Control. G72-12-A. Univ. of Nebr., Coop. Extension.
20. Gaussoin, R.E., Riordan, T.P., G.L. Horst, J.E. Watkins, and **F.P. Baxendale**. 1994. Kentucky Bluegrass Lawn Calendar. G80-517. Univ. of Nebr., Coop. Extension.
21. Harrell, M.O. and **F.P. Baxendale**. 1996. Pine Moths. G96-1277. Univ. of Nebr., Coop. Extension.
22. Riordan, T.P., R.E. Gaussoin, J.E. Watkins, and **F.P. Baxendale**. 1996. Tall Fescue Lawn Calendar. G81-558. Univ. of Nebr., Coop. Extension.
23. Ellis, M.D., and **F.P. Baxendale**. 1996. Managing Varroa in the Midwest. G96-1302. Univ. of Nebr., Coop. Extension.
24. Riordan, T.P., **F.P. Baxendale**, R.E. Gaussoin, and J.E. Watkins. 1998. Buffalograss: An Alternative Native Grass for Turf. G96-1297. Univ. of Nebr., Coop. Extension.
25. Ellis, M.D. **F.P. Baxendale**, and D.L. Keith. 1998. Protecting Bees When Using Insecticides. G98-1347. Univ. of Nebr., Coop. Extension.
26. **Baxendale, F.P.**, S.T. Kamble, and M.D. Ellis. 2002. Stinging Wasps and Bees. G02-1447. Univ. of Nebr., Coop. Extension.
27. Gaussoin, R.E., R.C. Shearman, J.E. Watkins, and **F.P. Baxendale**. 2003. Kentucky Bluegrass Lawn Calendar. G80-517. Univ. of Nebr., Coop. Extension.

28. Riordan, T.P., R.E. Gaussoin, J.E. Watkins, and **F.P. Baxendale**. 2004. Tall Fescue Lawn Calendar. G81-558-A. Univ. of Nebr., Coop. Extension.
29. J.C. Fech and T.E. Eickhoff. 2006. White Grubs. G1619. Univ. of Nebr. Extension.
30. Eickhoff, T.E., C.M. Wasem, **F.P. Baxendale**, and K.W. Todd. 2006. Management of Japanese Beetle Adults. G1623. Univ. of Nebr. Extension.
31. Rodie, S.N., A.M. Streich, K.W. Todd, **F.P. Baxendale**, and L.J. Giesler. 2007. Hostas. G1683. Univ. of Nebr. Extension.
32. Hodges, L. and **F.P. Baxendale**. 2007. Bee Pollination of Cucurbit Crops. G1754. Univ. of Nebr. Extension.
33. **Baxendale, F.P.**, S.T. Kamble, and M.D. Ellis. 2008. Stinging Wasps and Bees. G1447. Univ. of Nebr. Extension.
34. **Baxendale, F.P.** and J.A. Kalisch. 2009. Bagworms. G1951. Univ. of Nebr. Extension.
35. **Baxendale, F.P.**, M.D. Stamm, and T.M. Heng-Moss. 2009. Chinch Bugs in Buffalograss and Zoysiagrass Turf. G1952. Univ. of Nebr. Extension.
36. Stamm, M.D. and **F.P. Baxendale**. 2009. Managing Ants on Golf Courses. G1959. Univ. of Nebr. Extension.
37. Ogg, B.P., **F.P. Baxendale**, and J.A. Kalisch. 2010. Residential Mosquito Control. G2037. Univ. of Nebr. Extension.
38. Ogg, B.P., **F.P. Baxendale**, and C.L. Ogg. 2012. Managing Bed Bugs. Z1583. Univ. of Nebr. Extension.
39. Reicher, Z., K. Amundsen, A. Streich, **F. Baxendale**, and L. Geisler. 2012. Tall Fescue Management Calendar. G558. Univ. of Nebr. Extension.
40. Reicher, Z., K. Amundsen, A. Streich, **F. Baxendale**, and L. Geisler. 2012. Kentucky Bluegrass Management Calendar. G517. Univ. of Nebr. Extension.
41. Reicher, Z., K. Amundsen, A. Streich, **F. Baxendale**, and L. Geisler. 2012. Buffalograss Management Calendar. G2178. Univ. of Nebr. Extension.

#### *NebFacts*

1. Hodges, L. and **F.P. Baxendale**. 1991. Bee Pollination of Cucurbit Crops. NF91-50. Univ. of Nebr., Coop. Extension.
2. **Baxendale, F.P.** and L. Hodges. 1992. European Corn Borer Injury to Peppers. NF92-53. Univ. of Nebr., Coop. Extension.
3. Harrell, M.O. and **F.P. Baxendale**. 1992. Gypsy Moth. NF92-82. Univ. of Nebr., Coop. Extension.
4. Keith, D.L. and **F.P. Baxendale**. 1996. Pillbugs and Sowbugs. NF96-302. Univ. of Nebr., Coop. Extension.
5. **Baxendale, F.P.**, S.T. Kamble, D.L. Keith, and J.A. Jones. 1996. Chiggers. NF96-296. Univ. of Nebr., Coop. Extension.
6. **Baxendale, F.P.**, T.M. Heng-Moss, and T.P. Riordan. 1997. Buffalograss Chinch Bugs. NF97-342. Univ. of Nebr., Coop. Extension.
7. **Baxendale, F.P.**, T.E. Eickhoff, and T.M. Heng-Moss. 2002. Chinch Bugs in Buffalograss and Zoysiagrass. NF02-342. Univ. of Nebr., Coop. Extension.

#### *Books (Editor)*

1. **Baxendale, F.P.** and R.E. Gaussoin, eds. 1992. *Integrated Management Guide for Nebraska Turfgrass*. EC92-1557. Univ. of Nebr., Coop. Extension. 94 p.
2. **Baxendale, F.P.** and R.E. Gaussoin, eds. 1997. *Integrated Turfgrass Management for the Northern Great Plains*. EC97-1557. Univ. of Nebr., Coop. Extension. 256 p.

#### *Chapters in Books*

1. **Baxendale, F.P.** 1992. Insects and Related Pests of Turfgrass, p 16-35. In **Baxendale, F.P.** and R.E. Gaussoin (eds.). *Integrated Management Guide for Nebraska Turfgrass*. EC92-1557. Univ. of Nebr., Coop. Extension.

2. **Baxendale, F.P.** 1997. Insects and Related Pests of Turfgrass, p. 31-78. *In Baxendale, F.P.* and R.E. Gaussoin (eds.). *Integrated Turfgrass Management for the Northern Great Plains*. EC97-1557. Univ. of Nebr., Coop. Extension.
3. **Baxendale, F.P.** 2004. Insect Pest Management for Lawns. *In Pimentel, D. (ed.) Encyclopedia of Pest Management*. Marcel Dekker, Inc. 903p.
4. **Baxendale, F.P.** 2007. Insect Pest Management: Lawns. *In Pimentel, D. (ed.) Encyclopedia of Pest Management Volume II*. Marcel Dekker, Inc. 784p. Online at: <http://www.dekker.com/>

*Trade Journal Articles*

1. **Baxendale, F.P.** 1990. Billbugs: Characteristics and Control. *Golf Course Management* (April 1990).
2. **Baxendale, F.P.** 1990. Insects Associated with Buffalograss. *Golf Course Management* (July 1990).
3. **Baxendale, F.P.** 1990. Japanese Beetles in the Midwest. *Northern Turf Manager* (September/October 1990).
4. Fech, J.C. and **F.P. Baxendale**. 1998. Take a Bite Out of Leaf-Feeding Insects. *Grounds Maintenance* (June 1998).
5. **Baxendale, F.P.** 1998. Billbugs. *Golf Course Management* (September 1998).
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#### *Newsletters*

- IPW/Crop Watch, 1983-91 (172 issues)
- Plant Watch, 1991 (18 issues)
- Inside/Outside, 1992-1997 (44 issues)
- Online Urban Pest Management Newsletter 2001-2005

#### *Technical Information Columns*

- On TAP (Turfgrass Advisory Panel): I was a regular contributor to this monthly, Turf Science Team-produced column in *Northern Turf Management* magazine 1991-1996. Monthly circulation > 35,000.

## EDUCATIONAL AIDS AND MATERIALS DEVELOPED

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### *WWW Activities*

- ENTWEB: Informational Updates on Turfgrass Entomology Page  
**Address:** <http://entomology.unl.edu/turfent/index.shtml>
- Nebraska Pests of Woody Ornamentals and Herbaceous Perennials  
**Address:** <http://entomology.unl.edu/ornamentals/index.shtml>
- Emerald Ash Borer in Nebraska  
**Address:** <http://entomology.unl.edu/eab/index.shtml>
- Kentucky Bluegrass, Tall Fescue, Zoysiagrass Lawn Calendars  
**Address:** <http://turf.unl.edu/lawn calendars.cfm>
- Turf iNfo for North Central US  
**Address:** <http://turf.unl.edu/>

### *Turfgrass Hotline*

- Provides turfgrass managers with information on current and potential pest problems and treatment strategies, 1999-2003.

### *Calendars*

- Backyard Farmer Calendar, 1988-1990.

### *Slide/Tapes*

- Insects, Diseases and Weeds in Ornamentals and Turf for Pesticide Applicator Training, 1990.

### *Videos*

- Turfgrass and Landscape Management for Home Lawns, Nebraska Extension, 2008.
- Insects Affecting Urban Landscapes in Nebraska, Pesticide Applicator Training, 1997, 1998, 2001, 2004, 2006, 2009.

### *Interactive Zmag Publications*

- Ogg, B.P., **F.P. Baxendale**, and C.L. Ogg. 2012. Managing Bed Bugs. Z1583. Univ. of Nebr. Extension.

### *Displays*

- Participated in the display of the Bee Culture Honey Exhibit at the Nebraska State Fair (1988-Present).
- Participated in the development and display of the "Pest Detective" Kiosk; an interactive computer displayed in Omaha's Target Store (1994-98).
- Participated in the design and preparation of the Department of Entomology and "Living Wild Resources" displays used at IANR events including Ag Expo (1985-86), IANR Open House (1987), Husker Harvest Days (1985-92), and the Nebraska State Fair (1985-87, 1993-96).
- Participated in the development of the Entomology display used at the Construction Ceremony for the new Research and Education Headquarters at Ithaca, NE (May 1994).

### *EARS Reports*

1. **Baxendale, F.** 1996. Community and Residential Environment: *Entomological Information Program*.
2. **Baxendale, F.P.**, R. Gaussoin, D. Steinegger, and D. Wysong, J. Chaky, J. Culbertson, K. Cue, J. Fech, K. Feehan, D. Ferraro, L. Giesler, B. Hendrickson, D. Janssen, J. Kalisch, B. Kappler, D. Keith, J. Locklear, B. Mills, R. Seymour, A. Streich, K. Todd, and J. Watkins. 1996, 2003. Community and Residential Environment: *Backyard Farmer*.
3. Steinegger, D., A. Greving, **F. Baxendale**, K. Bennetch, J. Fech, R. Gaussoin, B. Gilmour, D. Harder, J. Kilpatrick, S. Ress, S. Rodie, E. Traylor, S. Schoneweis, L. Wit, J. Watkins, J. Anderson, S. Skipton,

- A. Streich, D. Pittman, R. Shearman, and S. Browning. 1997, 1998, 1999, 2000. Community and Residential Environment: *Festival of Color*.
4. Fech, J., D. Janssen, **F. Baxendale**, R. Gaussoin, and J. Watkins. 1998. Community and Residential Environment: *Garden Center Update Turfgrass Pest Guide*.
  5. Feehan, K., D. Steinegger, A. Greving, J. Watkins, L. Giesler, S. Rasmussen, and **F. Baxendale**. 1999. Community and Residential Environment: *Lawn and Landscape Update*.
  6. Keith, D., J. Albrecht, M. Brashears, J. Fech, **F. Baxendale**, M. Ellis, D. Ferraro, R. Gaussoin, L. Giesler, S. Hygnstrom, D. Janssen, J. Kalisch, S. Kamble, W. Kramer, S. Niemeyer, B. Ogg, C. Ogg, M. Powell, J. Rupnow, L. Schulze, D. Smith, D. Steinegger, R. Tondl, J. Watkins, S. Browning, S. Cochran, G. Haws, R. Johnson, R. Seymour, A. Streich, and D. Virchow. 1999, 2000, 2001, 2002, 2003. Community and Residential Environment: *Nebraska Urban Pest Management Conference*.
  7. Albrecht, J., M. Brashears, J. Fech, **F. Baxendale**, M. Ellis, D. Ferraro, R. Gaussoin, L. Giesler, S. Hygnstrom, D. Janssen, J. Kalisch, S. Kamble, W. Kramer, S. Niemeyer, B. Ogg, C. Ogg, M. Powell, J. Rupnow, L. Schulze, D. Smith, D. Steinegger, R. Tondl, and J. Watkins. 2000. Community and Residential Environment: *Impact of Urban Integrated Pest Management Programs on Nebraska's Pest Control Industry*.
  8. Ellis, M., L. Higley, L. Meinke, T. Heng-Moss, **F.P. Baxendale**, D. Keith, S. Kamble, J. Foster, B. Siegfried, D. Stanley, R. Roselle, S. Spomer, L. Silberman, Z B Mayo, J. Kalisch, R. Seymour, T. Hunt, K. Jarvi, D. Ferraro, and B. Ogg. 2001. Community and Residential Environment: *The Bug Bash – A Program of Teaching and Learning for K-12 Students and Science Teachers*.
  9. Keith, D., J. Albrecht, M. Brashears, J. Fech, **F. Baxendale**, D. Ferraro, R. Gaussoin, L. Giesler, S. Hygnstrom, D. Janssen, J. Kalisch, S. Kamble, W. Kramer, S. Niemeyer, B. Ogg, C. Ogg, M. Powell, J. Rupnow, L. Schulze, D. Smith, D. Steinegger, R. Tondl, and J. Watkins. 2001. Community and Residential Environment: *Urban Pest Management Team Programs and Impacts: a Summary*.
  10. Streich, A., R. Gaussoin, T. Riordan, R. Shearman, J. Watkins, L. Giesler, J. Chaky, **F.P. Baxendale**, T. Heng-Moss, J. Kalisch, and S. Adams. 2001. Community and Residential Environment: *Nebraska Turfgrass Field Day*.
  11. Streich, A., R. Gaussoin, T. Riordan, R. Shearman, S. Rodie, D. Steinegger, J. Fech, K. Todd, J. Watkins, **F. Baxendale**, L. Giesler, J. Chaky, L. Schulze, and D. Mooter. 2001. Community and Residential Environment: *Nebraska Turfgrass Conference*.
  12. Streich, A., D. Steinegger, R. Gaussoin, J. Watkins, **F.P. Baxendale**, R. Shearman, S. Rodie, and T. Heng-Moss. 2001. Community and Residential Environment: *Horticulture In-Service Training*.
  13. Streich, A., R. Gaussoin, R. Shearman, **F.P. Baxendale**, J. Watkins, T. Heng-Moss, L. Giesler, S. Rodie, J. Chaky, J. Fech, K. Todd, T. Riordan, S. Hygnstrom, G. Horst, L. Schulze, B. Kappler, A. Martin, and B. Klein. 2002. Community and Residential Environment: *Turfgrass Education*.
  14. Fech, J., A. Streich, B. Kappler, D. Janssen, D. Keith, **F. Baxendale**, J. Watkins, K. Cue, K. Feehan, L. Germer, L. Giesler, R. Gaussoin, R. Seymour, J. Chaky, D. Ferraro, J. Kalisch, K. Todd, B. Hendrickson, J. Evertson, J. Locklear, J. Culbertson, B. Mills, and various master gardeners. 2004. Community and Residential Environment: *Backyard Farmer/Backyard Farmer Extra Television Programs*.
  15. Hruskoci, J., J. Watkins, L. Giesler, J. Chaky, **F. Baxendale**, L. Schulze, S. Schoneweis, A. Streich, J. Fitzgerald, R. Seymour, and S. DeWald. *South Central Master Gardener Training Program*. 2003.
  16. **Baxendale, F.P.**, L.G. Higley, and T.E. Huntington. 2004. Community and Residential Environment: *Forensic Entomology Workshops*.
  17. Schild, J., **F.P. Baxendale**, C. Burkhart-Kriesel, J. Evertson, R. Gaussoin, B. Hendrickson, T. Merrigan, and Regional West Medical Center. *Managing the Landscape During Drought*. 2004.
  18. Schild, J., C. Burkhart-Kriesel, **F. Baxendale**, J. Watkins, R. Gaussoin, J. Evertson, B. Hendrickson, and T. Koski. . 2004. Community and Residential Environment: *Drought Effects on Western Nebraska Groundskeepers*.
  19. Germer, L., A. Streich, D. Keith, **F. Baxendale**, J. Watkins, L. Schulze, P. Hay, P. Read, R. Johnson, R. Gaussoin, S. Josiah, R. Pryor, S. Hygnstrom, J. Chaky, S. Karloff, S. Vantassel, J. Locklear, G. Pinkerton, D. Anderson, B. Henrickson, J. Evertson, J. Culbertson, K. Baird, M. Groenwold, and J. Kalisch. 2004, 2005. Community and Residential Environment: *KGMT/KUTT Yard and Garden Radio Program*.

20. Namuth, D., D. Lindgren, **F. Baxendale**, J. Schild, J. Watkins, K. DeBoer, R. Gaussoin, J. Chaky, K. Todd, and K. Bennetch. 2005. Community and Residential Environment: *Distance Delivered Herbaceous Perennials and Grasses for Sustainable Landscapes Workshop*.
21. Ogg, B., C. Ogg, C. Thayer, D. Keith, **F. Baxendale**, J. Fech, J. Schild, J. Watkins, J. Wilson, K. Jarvi, L. Giesler, L. Schulze, R. Gaussoin, R. Johnson, R. Klein, R. Seymour, S. Hygnstrom, S. Kamble, S. Williams, D. Ferraro, A. Martin, D. Morgan, F. Roeth, G. Wicks, J. Campbell, D. Boxler, S. Danielson, M. Harrell, and K. Hoagland. 2005. Community and Residential Environment: *Self-Study Materials Help Commercial/Noncommercial Pesticide Applicators Prepare for Certification*.
22. Streich, A., **F. Baxendale**, L. Giesler, R. Gaussoin, S. Browning, S. Rodie, K. Todd, J. Culbertson, J. Evertson. 2005. Community and Residential Environment: *Public Horticulture Programs*.
23. Todd, K., D. Lindgren, D. Namuth, **F. Baxendale**, R. Gaussoin, J. Chaky, S. Wegulo, and J. Kluck. 2006. Community and Residential Environment: *Herbaceous Perennials and Grasses for Low-Input Landscapes*.
24. Streich, A., **F. Baxendale**, K. Feehan, L. Germer, L. Schulze, M. Ellis, S. Browning, S. Rodie, J. Chaky, J. Kalisch, D. Tarkalson, and K. Todd. 2006. Community and Residential Environment: *Campus-based Master Gardener Program - 2005*.
25. Germer, L., A. Streich, D. Keith, **F. Baxendale**, J. Watkins, L. Schulze, P. Hay, P. Read, R. Johnson, R. Pryor, S. Hygnstrom, J. Chaky, S. Karloff, S. Vantassel, G. Pinkerton, D. Anderson, J. Evertson, J. Culbertson, K. Baird, M. Groenwold, and J. Kalisch. 2006. Community and Residential Environment: *KGMT/KUTT Yard and Garden Radio Program*.
26. Todd, K., D. Lindgren, **F. Baxendale**, J. Chaky, R. Gaussoin, J. Kluck, D. Namuth, and S. Wegulo. 2006. Community and Residential Environment: *Herbaceous Perennials and Grasses for Low-Input Landscapes*.
27. Streich, A., **F. Baxendale**, L. Giesler, L. Schulze, R. Gaussoin, S. Hygnstrom, S. Rodie, J. Chaky, T. Riordan, R. Shearman, and K. Todd. 2007. Community and Residential Environment: *Nebraska Turfgrass Conference*.
28. Heng-Moss, T., **F. Baxendale**, M. Ellis, R. Wright, S. Kamble, T. Weissling, L. Silberman, G. Brewer, D. Carter, S. Danielson, J. Foster, L. Meinke, B. Siegfried, and S. Voss. 2008. 4-H and Youth Development: *Experience the Power of Bugs*.
29. Streich, A., **F. Baxendale**, K. Lodl, L. Schulze, R. Gaussoin, S. Browning, S. Rodie, J. Kalisch, K. Todd, S. Vantassel, T. Jackson, J. Evertson, and L. Stepanek. 2008. Community and Residential Environment: *UNL Campus-based Master Gardener Program*.
30. Kamble, S., B. Ogg, C. Ogg, **F. Baxendale**, S. Hygnstrom, D. Ferraro, J. Kalisch, S. Niemeyer, E. Bauer, T. Creger, B. Vance, and T. Janousek. 2009. Community and Residential Environment / Healthy Families and Communities: 2008 Nebraska Urban Pest Management Conference.
31. Ziems, A., A. Streich, **F. Baxendale**, J. Fech, K. Feehan, L. Giesler, R. Gaussoin, S. Browning, J. Kalisch, K. Todd, S. Wegulo, L. Sandell, and M. Rethwisch. 2009. Community and Residential Environment: *Backyard Farmer/Backyard Farmer Extra Television Program – 2008*.
32. Schild, J., **F. Baxendale**, J. Fech, K. Feehan, J. Kalisch, K. Todd, and T. Weissling. 2009. Community and Residential Environment: *Nebraska Extension Preparing for Arrival of the Emerald Ash Borer*.
33. Kamble, S., B. Ogg, C. Ogg, **F. Baxendale**, S. Hygnstrom, D. Ferraro, J. Kalisch, S. Niemeyer, E. Bauer, T. Creger, B. Vance and T. Janousek. 2009. Community and Residential Environment: *2009 Nebraska Urban Pest Management Conference*.
34. Killinger, E., **F. Baxendale**, J. Albrecht, P. Read, R. Gaussoin, D. Adams, J. Kalisch, K. Todd, S. Wegulo, L. Sandell, A. Ziems, G. Pinkerton, K. Baird, E. Berg, R. Henrickson, D. Anderson, T. Pabst, S. Karloff, and M. Groenewold. 2009. Community and Residential Environment: *Yard and Garden 2009*.
35. Feehan, K., **F. Baxendale**, R. Gaussoin, and S. Rodie. 2009. Community and Residential Environment: *2009 Lawn and Landscape Update for Green Industry Professionals*.
36. Streich, A., **F. Baxendale**, J. Albrecht, R. Gaussoin, S. Browning, D. Ferraro, J. Kalisch, K. Todd, V. Hammond, A. Ziems, T. James, L. Finke and J. Evertson. 2010. Action Plans: Water, Climate and Environment – Community and Child and Youth Development: *UNL Campus-based Master Gardener Program-2009*.



37. Bauer, E., A. Vyhnalek, B. Ogg, C. Burr, C. Ogg, D. Bauer, **F. Baxendale**, G. Hein, J. Schild, K. Feehan, L. Giesler, P. Hay, R. Gaussoin, R. Klein, R. Seymour, R. Wright, S. Browning, S. Hygnstrom, T. Dorn, D. Anderson, D. Ferraro, S. Vantassel, T. Jackson, S. Wegulo, T. Barrow, M. Bernards, J. Jenkins, L. Sandell, D. Kwaw-Mensah, M. Hinze, D. Boxler, and K. Hoagland. 2010. Action Plans: Crops for the Future and Water, Climate and Environment – Community. *2010 Commercial / Noncommercial Pesticide Safety Education Program*.
38. Bauer, E., A. Vyhnalek, B. Ogg, C. Burr, C. Ogg, D. Bauer, D. Varner, **F. Baxendale**, G. Hein, J. Schild, K. Feehan, L. Giesler, P. Hay, R. Gaussoin, R. Klein, R. Seymour, R. Wright, S. Hygnstrom, T. Dorn, D. Anderson, D. Ferraro, T. Lemmons, S. Vantassel, T. Jackson, S. Wegulo, J. Hygnstrom, M. Bernards, J. Jenkins, L. Sandell, W. Ohnesorg, D. Kwaw-Mensah, M. Hinze, G. Kruger, D. Boxler, K. Hoagland, P. Hansen, R. Cortinas, and T. Barrow. 2011. Action Plans: Crops for the Future and Water, Climate and Environment – Community. *2011 Commercial / Noncommercial Pesticide Safety Education Program*.
39. Bauer, E., A. Vyhnalek, B. Ogg, C. Burr, C. Ogg, D. Bauer, **F. Baxendale**, G. Hein, J. Schild, K. Feehan, L. Giesler, P. Hay, R. Gaussoin, R. Klein, R. Seymour, R. Wright, S. Hygnstrom, T. Dorn, D. Anderson, D. Ferraro, T. Lemmons, S. Vantassel, T. Jackson, J. Hygnstrom, J. Jenkins, L. Sandell, E. Killinger, W. Ohnesorg, M. Hinze, G. Kruger, D. Boxler, N. Bjorklund, T. Barrow R. Cortinas, K. Hoagland, P. Hansen, S. Wegulo, and A. Timmerman. 2012. Action Plans: Crops for the Future and Water, Climate and Environment – Community. *2012 Commercial / Noncommercial Pesticide Safety Education Program*.
40. Stoner N., **F. Baxendale**, J. Albrecht, P. Hay, P. Read, S. Browning, D. Adams, J. Kalisch, S. Vantassel, L. Sandell, A. Tabor, G. Pinkerton, D. Anderson, B. Loseke, G. Herbst, T. Pabst, L. Germer, S. Karloff, J. Culbertson, B. Henrickson, J. Starr, and K. Christiansen. 2012. Community and Residential Environment: *Yard and Garden 2012*.

#### INVITED PRESENTATIONS

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##### *International*

1. Farmer's Coop Meeting, January 8, 2004, Dunsandel, New Zealand, *What's Bugging Your Paddock?*
2. Canterbury Wool Producers Field Day, February 2, 2004, Methven, New Zealand, *Pasture Mealybug: A New? Threat to Canterbury Paddocks.*
3. HORTEAST Horticultural Trade Show and Conference, January 17-18, 2005, Moncton, Canada. *Reducing Pesticide Inputs in Public Areas and Fine-Tuning Your Chinch Bug Management Program.*

##### *National/Regional*

1. Joint Nebraska Florists Society and Society of Iowa Florists Grower Seminar, October 23-25, 1986, South Sioux City, NE. *Tomato Spotted Wilt Virus and Greenhouse Thrips.* (Dr. L.C. Lane, Co-presenter)
2. Mid-America Regional Seminar for Lawn Care Professionals, August 13, 1987, Kansas City, MO. *Billbug, Turfgrass, and You.* (Dr. E.J. Kinbacher, Co-presenter)
3. ChemLawn Services Western Field Day, August 7, 1989, Ithaca, NE. *Residual Activity of Insecticides for Sod Webworm Control and Insects Associated with Buffalograss in Nebraska.*
4. Sixty-fourth meeting of the National Plant Board, August 13-16, 1990, Lincoln, NE. *Insect Pests of Buffalograss.*
5. American Sod Producers Association Tour, October 21, 1990, Ithaca, NE. *Turfgrass Insect Research Update,*
6. Teikyo Loretto Heights University, Visiting Scholar, February 8, 1991, Denver, CO. *Insects of the Prairie.*
7. Golf Course Superintendents Association of America (GCSAA), March 11, 1991, Omaha, NE. *Insects Associated with Sports Turf.*
8. Rocky Mountain Turf Conference and Trade Show, December 3-5, 1991, Denver, CO. *What's Bugging your Buffalograss, White Grub and Billbug Identification and Control, and White Grub Management on Golf Courses.*

9. Midwest Greenscape Expo, January 6-8, 1993, Indianapolis, IN. *Pesticide Injection: Is it Feasible?* and *Practical Grub Sampling for Lawn Care*.
10. Iowa Turfgrass Conference, January 18-20, 1993, Des Moines, IA. *White Grub Management Techniques and Monitoring Turfgrass Insects*.
11. South Dakota Turfgrass Seminar and Trade Show, March 9-11, 1993, Sioux Falls, SD. *Identification of Turfgrass Insects and Fine-Tuning Your Turf Insect Management Program*.
12. Kansas Turfgrass Conference, November 2-4, 1993, Topeka, KS. *Turfgrass Insect Management*.
13. Athletic Turf Management Seminar, National Institute on Park and Grounds, March 7-8, 1994, Lincoln, NE. *Insect Management for Sports Turf*.
14. Iowa State University Shade Tree Short Course, March 8-9, 1994, Ames, IA. *Horticultural Oils: Historical Perspective, Present Use and Future Prospects*.
15. Kansas Vector-Borne Disease Prevention Conference, April 17-18, 1995, Manhattan, KS. *Human Lice and Stinging Insects*.
16. Turf and Grounds Exposition, New York State Turfgrass Association, November 7-10, 1995, Rochester, NY, *Turfgrass Insect Ecology and Management*. (conducted a full-day workshop).
17. Iowa Turfgrass Conference, January 22-24, 1996, Des Moines, IA. *White Grub Management Update and Fine-Tuning Your Turfgrass Insect Management Program*.
18. John Deere Annual Dealer's Meeting, February 5-11, 1996, Orlando, FL. *Subsurface Application/ Root Zone Injection Technology*.
19. North Central Turfgrass Exposition, December 3-5, 1996, St. Charles, IL. *Why Pesticides Fail and Current Status of Biological Control in Turfgrass*.
20. John Deere Annual Dealer's Meeting, February 6-16, 1997, Las Vegas, NV. *Precision Insect Management with the RZI-700*.
21. Biological Control Workshop for Turf and Ornamentals, November 17-18, 1997. Amherst, MA. *Biological Control for the 21<sup>st</sup> Century*.
22. John Deere Annual Dealer's Meeting, February 2-8, 1998, Anaheim, CA. *Optimizing Insect Control with the John Deere RZI-700*.
23. Valent Turf and Landscape Plant Management Seminar, August 7-10, 1998, Colorado Springs, CO. *Turfgrass Insect Management in the Midwest*.
24. Cornell Golf Turf Short Course, January 11-15, 1999, Ithaca, NY. *Ecology and Management of Turfgrass Insects* (full day workshop).
25. Iowa Turfgrass Conference, January 25-27, 1999, Des Moines, IA. *Insect ID & Control: An Introduction to Turfgrass Insect Management, Reducing Pesticide Inputs in Public Places and Getting the Most From the New Turf Insecticides*.
26. AgrEvo Solutions Workshop Series, March 31, 1999 (Des Moines, IA), April 23 (Kansas City, MO), April 28 (Council Bluffs, IA). *Insects Affecting High Quality Landscapes and Turf*.
27. Mid-West Master Beekeeping Workshop, July 24, 1999, Mead, NE. *Arthropods Found in Bee Yards*.
28. Ohio Turfgrass Conference, December 7-9, 1999, Columbus, OH. *The Thinking Lawncare Professional - IPM & Money Saving Strategies* (Panel Discussion), *Insect Control Decisions for Lawn/ Landscape Managers* and *Insect Management Strategies for Athletic Fields*.
29. Texas A&M University PCO Pest Management Conference and Workshop, January 12-14, 2000, College Station, TX. *Insect Pest Management Strategies for Urban Landscapes*.
30. New England Regional Turfgrass Conference and Show, March 7-9, 2000, Providence, RI. *Biocontrols in a Lawn Care Program and Reducing the Use of Pesticides While Effectively Managing Pests*.
31. Valent Turf and Landscape Plant Management Seminar, June 18-21, 2000, Jackson Hole, WY. *Midwest Turfgrass Insect Update*.
32. Central Missouri Turfgrass Conference, January 10-11, 2001, Kansas City, MO. *Effective White Grub Control for LCO's and Managing Surface Feeders*.
33. Michigan Turfgrass Conference, January 15-18, 2001, East Lansing, MI. *Principles of Turfgrass Insect Management, Fine-Tuning Your Cutworm Management Program and Reducing Pesticide Inputs in Public Areas*.
34. Maryland Turfgrass Conference, January 24-25, 2001, Timonium, MD. *Effective Black Cutworm Control for Golf Course Superintendents, Reducing Pesticide Inputs in Public Areas and Biological Controls for Urban Landscapes*.

35. Kansas Vector-Borne Disease Prevention Conference, April 15-16, 2002, Manhattan, KS. *Human Lice and Stinging Insects*.
36. Turf and Grounds Exposition, New York State Turfgrass Association, November 12-14, 2002, Syracuse, NY. *Biological Controls for Landscapes, Why Pesticides Fail and You Make the Call*.
37. Texas A&M University PCO Pest Management Conference and Workshop, January 8-10, 2003, College Station, TX. *Insect Pest Management Strategies for School Grounds and Principles of Turfgrass Insect Management*.
38. IACLS-NSCLS Clinical Laboratory Scientists, April 27-29, 2005, Council Bluffs, IA. *Forensic Entomology*.
39. Garden Line Television Program, South Dakota State University, August 23, 2005, Brookings, SD. Guest Panelist.
40. Kansas Turfgrass Conference, November 16-17, 2005, Topeka, KS. *Reducing Pesticide Inputs in Public Areas, Fine-Tuning Your Chinch Bug Management Program, and You Make the Call*.
41. New England Regional Turfgrass Conference and Show, March 6-9, 2006, Providence, RI. *Hyperodes: A Continuing Challenge and Dealing with Unusual and Unexpected Turfgrass Pests in Lawns and Landscapes*.
42. Aurora Public Libraries, November 9, 2008, Denver, CO. *Of Maggots and Murder*.
43. Golf Course Superintendents Association of America (GCSAA) Annual Meeting, February 2-5, 2009, New Orleans, LA. *Cool-Season Turfgrass Insects: Biology, Ecology and Management* (full day seminar co-presented with Dr. Pat Vittum).
44. Golf Course Superintendents Association of America (GCSAA) Regional Seminar, February 26, 2009, Minneapolis, MN. *Cool-Season Turfgrass Insects: Biology, Ecology and Management* (full day seminar co-presented with Dr. Pat Vittum).
45. Golf Course Superintendents Association of America (GCSAA) Annual Meeting, February 8-12, 2010, San Diego, CA. *Cool-Season Turfgrass Insects: Biology, Ecology and Management* (full day seminar co-presented with Dr. Pat Vittum).
46. Michigan Green Industry Association (MGIA) Workshop, February 16, 2010, Bingham Farms, MI. *An Introduction to Turfgrass Insect Pest Management* (full day seminar).
47. Golf Course Superintendents Association of America (GCSAA) Annual Meeting, February 27-March 2, 2012, Las Vegas, NV. *Cool-Season Turfgrass Insects: Biology, Ecology and Management* (full day seminar co-presented with Dr. Pat Vittum).

#### Nebraska

1. Northeast Research and Extension Center Field Day, August 21, 1984, Concord, NE. Univ. of Nebr., Coop. Extension. *First Year Corn Studies*.
2. Nebraska Fertilizer and Ag-Chemical Institute Update, November 27, 1984, Lincoln, NE. *Alfalfa Insect Management*.
3. Farmland Fertilizer/Ag-Chemical Dealer School, December 13, 1984, Lincoln, NE. *Spider Mites on Corn and Soybeans*.
4. Focus on Ag and Home Day, February 6, 1985, Seward, NE. Univ. of Nebr., Coop. Extension. *Are Insecticides Needed on First Year Corn?* and *Spider Mites and Other Wee Beasties*.
5. Agricultural Aviation (NATA) Seminar, February 12-15, 1985, North Platte, NE. *Legume Insect Control and Grasshopper Update*.
6. Sorghum Production Day, February 15, 1985, Auburn, NE. Univ. of Nebr., Coop. Extension, *Sorghum Insect Control*.
7. Direct Marketing Conference, February 22, 1985, Lincoln, NE. Univ. of Nebr., Coop. Extension. *The Integrated Pest Management Approach and Insect Control on Apples*.
8. IPM Field Scout Training Workshop, May 16, 1985, Lincoln, NE. Univ. of Nebr., Coop. Extension. *Biology and Identification of Spider Mites*.
9. Chemical and Fertilizer Dealer Meeting, November 11, 1985, Columbus, NE. Univ. of Nebr., Coop. Extension. *Greenbugs: Research and Timely Treatment* and *Rotating Rootworm Insecticides - Yes? No?*

10. Nebraska Honey Producers Fall Meeting, November 1-2, 1985, York, NE. *Bees, Wasps, and Other Stinging Insects, Phostoxin for Wax Moth Control and Pesticides Used in Nebraska - Avoiding Bee Losses.*
11. Farmland Fertilizer/Ag-Chemical Dealer School, November 12-13, 1985, Lincoln, NE. *Insect Control Recommendations to Maximize Insecticide Performance and Profitability.*
12. Nebraska Fertilizer and Ag-Chemical Institute Update, December 2 and 4, 1985, Lincoln and North Platte, NE. *Insect Control in Corn, Insect Control in Soybeans, and New and Special Use Pesticides*
13. Nebraska Independent Crop Consultants Association Update, December 12-13, 1985, Lincoln, NE. *Insect Pests Associated with First Year Corn.*
14. Nebraska Turfgrass Conference, January 14-15, 1986, Omaha, NE. *Identification and Control of Turfgrass Insects.*
15. Hamilton County Ag Day, January 30, 1986, Aurora, NE. Univ. of Nebr., Coop. Extension. *Crop Insect Forecast - 1986.*
16. Agricultural Aviation (NATA) Seminar, February 11-14, 1986, Kearney, NE. *Spider Mite Management in Corn.*
17. Beekeepers Shortcourse, March 18-19, 1986, Peru, NE. Univ. of Nebr., Coop. Extension and Nebraska Department of Agriculture. *Introduction to Beekeeping, Honeybee Biology and Behavior, Nectar and Pollen Secreting Plants, Diseases and Pests of Honeybees, and Chemicals Used in Beekeeping.*
18. IPM Field Scout Training Workshop, May 15, 1986, Lincoln, NE. Univ. of Nebr., Coop. Extension. *Spider Mites in Corn.*
19. Eastern Nebraska Honey Producers Association Meeting, July 12, 1986. *Stinging Bees and Wasps.*
20. Beatrice Civic Garden Club, October 13, 1986, Beatrice, NE. *The Incredible World of Insects.*
21. Chemical and Fertilizer Dealer Seminar, November 6, 1986, Univ. of Nebr., Coop. Extension. *Bean Leaf Beetles: If and When to Treat and Insect Pest Management in Farm-Stored Grain.*
22. Nebraska Pest Control Association Meeting, November 20-21, 1986, Lincoln, NE. *Stinging Insects.*
23. AgChem Update, January, 6, 1987, David City, NE. Univ. of Nebr., Coop. Extension. *Corn, Sorghum and Soybean Insects.*
24. Agricultrama-Chemical and Fertilizer Dealer Seminar and Home Economics Program, January 9, 1987, Schuyler, NE. Univ. of Nebr., Coop. Extension. *Corn Rootworm Update, Soybean Insects and Their Control, and Insects on Houseplants.*
25. Nebraska Turfgrass Conference, January 13-15, 1987, Omaha, NE. *Turfgrass Insect Identification and Control.*
26. Agricultural Aviation (NATA) Seminar, February 17-20, 1987, Kearney, NE. *Timing of Pesticide Applications to Crop Growth Stages.*
27. FMC Corporation Seminar on Enhanced Biodegradation of Soil Applied Pesticides, March 19, 1987, Omaha, NE. *1987 Nebraska Rootworm Recommendations.*
28. Boy Scouts of America, May 11, 1987, Murdock, NE and May 13, 1987, Elmwood, NE. *Opportunities in Entomology.*
29. Platte Valley Agri Service Annual Field Tour, August 11, 1987. *Field Crop Insect Update.*
30. Crop Pest Management Update: A Conference for Professional Agriculturalists, December 15-16, 1987, Lincoln, NE. Univ. of Nebr., Coop. Extension, *Insect Recommendation Update and New Product Preview.*
31. Nebraska Turfgrass Conference, January, 11-13, 1988, Omaha, NE. *Turfgrass Insect Pest Management and Turf Insect Research Update.*
32. Direct Marketing Conference, February 12, 1988, Lincoln, NE. Univ. of Nebr., Coop. Extension, *Developing an Integrated Pest Management Program.*
33. Eastern Nebraska Honey Producers Association Meeting, September 17, 1988, Omaha, NE. *Displaying Apiary Products.*
34. Nebraska Turfgrass Conference, January 9-11, 1989, Omaha, NE. *Basic Turfgrass Insect ID and Control, Advanced Turfgrass Insect Management, Insect Management in Cemeteries and Turfgrass Insect Research Update.*
35. Northeast Nebraska Vegetable Growers Conference, February 3, 1989, Norfolk, NE. *Vegetable Insect Management.*

36. Commercial Lawn Care Training, February 7, 1989, Columbus, NE. Univ. of Nebr., Coop. Extension, *Management of Turf Insects*.
37. Lincoln Rose Society, April 17, 1989, Lincoln, NE. *Insect Pests of Roses*.
38. Omaha Public Schools, May 3, 1989, Omaha, NE. *The Incredible World of Insects*.
39. U.S. Golf Association Research Update, June 22, 1989, Ithaca, NE. *Buffalograss Mealybug Update*.
40. Nebraska Honey Producers Association Annual Meeting, November 17-18, 1989, Lincoln, NE. *Preparing Blue Ribbon Honey and Beeswax Exhibits*.
41. Nebraska Turfgrass Conference, January 8-10, 1990, Omaha, NE. *Basic Turfgrass Insect ID and Control, Advanced Turfgrass Insect Management, Insect Pests of Ornamental Trees and Shrubs, and Golf Course Insect Management*.
42. Association of Nebraska Nurserymen, January 15-16, 1990, Lincoln, NE. *The Effects of Drought on Insects*.
43. Nebraska Fruit and Vegetable Growers Conference, February 23, 1990, Lincoln, NE. *Insect Control without Synthetic Insecticide*.
44. Lincoln Public Schools, April 27, 1990, Lincoln, NE. *The Incredible World of Insects*.
45. Nebraska Professional Lawn Care Association Meeting, May 9, 1990. *Recent Trends in Turf Insect Pest Management*.
46. Commercial Vegetable Production Tour, July 11, 1990, Burt Co., NE. Nebr. Coop. Extension. *Managing Insect Pests in Commercial Vegetable*.
47. Ag in the Classroom Tour, July 19, 1990, Ithaca, NE. Turfgrass Science Team. *Turfgrass Insect Research in Nebraska*.
48. U.S. Golf Association Research Update, July 25, 1990, Ithaca, NE. *Turf Insect Research Update*.
49. State Fair Satellite Exhibit, September 9, 1990, Lincoln, NE. Univ. of Nebr., Coop. Extension. *Insect Pests of Yards and Gardens*.
50. Crop Pest Management Update Conference, November 27-28, 1990, Kearney, NE. *Crop Production and Honey Bees: Minimizing Losses From Pesticides*.
51. Nebraska Turfgrass Conference, January 7-9, 1991, Omaha, NE. *Basic Turfgrass Insect ID and Control and Advanced Turfgrass Insect Management*.
52. Nebraska Professional Lawn Care Association meeting, February 19, 1991, Lincoln, NE. *NPLCA Light Trapping Program*.
53. April In-depth Update, University of Nebraska, Coop. Extension, April 10, 1991, Lincoln, NE. *Household Invaders*.
54. Lincoln Public Schools, April 26, 1991, Lincoln, NE. *The Incredible World of Insects*.
55. Wachiska Audubon Society, 1991 Prairie Festival, September 15, 1991, Lincoln, NE. *Insect's Role on the Prairie*.
56. Nebraska Turfgrass Conference, January 6-9, 1992, Omaha, NE. *Basic Turfgrass Insect ID and Control; Testy Turf: Pest Interactions; and Monitoring Insect Pest of Turfgrass*.
57. Lincoln Public Schools, April 20, 1992, Lincoln, NE. *The Incredible World of Insects*.
58. Nebraska Professional Lawn Care Association meeting, May 14, 1992, Lincoln, NE. *NPLCA Light Trapping Program Update for 1992*.
59. Nurserymen's Field Day, July 10, 1992, Lincoln, NE. *Ornamental Insects Research and Extension Update*.
60. Wachiska Audubon Society, 1992 Prairie Festival, September 20, 1992, Lincoln, NE. *Insect's Role on the Prairie*.
61. Nebraska Turfgrass Conference, January 11-14, 1993, Omaha, NE. *Basic Turfgrass Insect ID and Control, Testy Turf: Pest Interactions, and NPLCA Light Trapping Program*.
62. Nebraska Urban Pest Management Conference, Univ. of Nebr., Coop. Extension, March 1-2, 1993, Lincoln, NE. *Identification and Detection of Lice and Bedbugs, Chiggers and Other Mites and Management of Lice, Mites and Bedbugs*.
63. April Update, UN Coop. Extension, April 6-8, 1993, Lincoln, NE. *Beneficial Wild Organisms*.
64. Lincoln Public Schools, April 14, 1993, Lincoln, NE. *Incredible World of Insects*.
65. First annual "A Festival of Color" Lawn and Garden Open House, September 18, 1993, Ithaca, NE. *Turfgrass Insects*.
66. Wachiska Audubon Society, 1993 Prairie Festival, September 19, 1993, Lincoln, NE. *Prairie Insects*.

67. Nebraska Turfgrass Conference, January 10-12, 1994, Omaha, NE. *Insect Management for Sports Turf and Insect Management for Cemeteries and Grounds.*
68. Nebraska Urban Pest Management Conference, January 25-26, 1994, Lincoln, NE. *Human Lice in Nebraska Schools.*
69. Nebraska Golf Course Superintendent's Association, March 23, 1994, Lincoln, NE. *Disease and Insect ID and Control for Nebraska Golf Courses.*
70. Folsom Children's Zoo, May 31, 1994, Lincoln, NE. *Insect Tour: Insect Inhabitants of the Zoo.*
71. Nebraska Golf Course Superintendent's Association Meeting, July 11, 1994, Syracuse, NE. *Light Trap Update and Chemical and Biological Control of Grubs.*
72. Festival of Color, September 10, 1994, Ithaca, NE. *Insects Associated with Nebraska Landscapes.*
73. Lincoln Garden Club, November 14, 1994, Lincoln, NE. *Alternative Pest Management Strategies for Yards and Gardens.*
74. Nebraska Turfgrass Conference, January 9-11, 1995, Omaha, NE. *Introduction to Turfgrass Insect Management, Insect Management for LCO's and Entomology Research Update.*
75. Urban Pest Management Conference, January 24, 1995, Lincoln, NE. *The Stings the Thing: German Yellowjackets.*
76. Lincoln Public Schools, March 16, 1995, Lincoln, NE. *The Incredible World of Insects.*
77. April Update, University of Nebraska, Coop. Extension, April 19, 1995, Lincoln, NE. *Turfgrass Insect Pest Management.*
78. Folsom Children's Zoo, July 11, 1995, Lincoln, NE. *Insect Tour: Insect Inhabitants of the Zoo.*
79. Festival of Color, September 9, 1995, Ithaca, NE. *What's Bugging Your Plants?*
80. Wachiska Audubon Society, 1995 Prairie Festival, September 17, 1995, Lincoln, NE. *The Role of Insects on the Prairie.*
81. Nebraska Turfgrass Conference, January 8-10, 1996, Omaha, NE. *Introduction to Turfgrass Insect Management, New Directions in Turfgrass Insect Research and White Grub Management for Cemetery and Grounds Managers.*
82. Commercial Horticulture Clinic, January 31, 1996, Omaha, NE. Nebr. Coop. Extension. *Population Sampling Techniques for Horticultural Insects.*
83. April Update, University of Nebraska, Coop. Extension, April 17, 1996, Lincoln, NE. *Testy Turf: Pest Interactions.*
84. Lincoln Public Schools, April 19, 1996, Lincoln, NE. *Exploring the Incredible World of Insects.*
85. Folsom Children's Zoo, May 21, 1996, Lincoln, NE. *Insect Inhabitants of the Zoo.*
86. Horticulture 4-H Plant Identification Contest, August 13, 1996, Lincoln, NE. *Opportunities in Horticultural Entomology.*
87. Festival of Color, September 14, 1996, Ithaca, NE. *Rots, Spots and Arthropods.*
88. Wachiska Audubon Society, Prairie Festival, September 15, 1996, Lincoln, NE. *Insect's Role on the Prairie.*
89. Meadowlane Nursery School, September 23, 1996, Lincoln, NE. *The Incredible World of Insects.*
90. Nebraska Turfgrass Conference, January 13-15, 1997, Omaha, NE. *Introduction to Turfgrass Insect Management.*
91. Urban Pest Management Conference, January 21-24, 1997, Lincoln, NE. *Bedbugs: Are They Making a Comeback?*
92. Lincoln Public Schools, April 16, 1997, Lincoln, NE. *Exploring the Incredible World of Insects.*
93. Folsom Children's Zoo, May 8, 1997, Lincoln, NE. *Insect Inhabitants of the Zoo.*
94. Festival of Color, September 6, 1997, Mead, NE. *Tree and Shrub Selection Criteria for Minimizing Insect Problems in the Landscape.*
95. Meadowlane Nursery School, September 10, 1997, Lincoln, NE. *The Fascinating World of Insects.*
96. Wachiska Audubon Society, Prairie Festival, September 13, 1997, Lincoln, NE. *The Role Insects on the Prairie.*
97. Nebraska Turfgrass Conference, January 12-14, 1998, Omaha, NE. *Introduction to Turfgrass Insect Management and Precision Insect Management Using Subsurface Application Technology.*
98. Urban Pest Management Conference, January 20-21, 1998, Lincoln, NE. *Mites Affecting Human Health.*

99. Commercial Lawn and Landscape Update, February 9, 1998, Columbus, NE. *Managing Insects Affecting Urban Landscapes*.
100. Festival of Color, September 12, 1998, Mead, NE. *Identifying and Managing Insect and Disease Problems in Urban Landscapes*.
101. Nebraska Turfgrass Conference, January 11-13, 1999, Omaha, NE. *Introduction to Turfgrass Insect Management*.
102. UNL Landscape Services Workshop, February 24, 1999, Lincoln, NE. *Turfgrass and Ornamental Insect Management and New Pesticide Chemistries for Urban Landscapes*.
103. Finke Gardens, March 6, 1999, Lincoln, NE. *Insects Affecting Urban Landscapes*.
104. Eastern Nebraska Honey Producers Association, May 8, 1999, Gretna, NE. *Preparing Blue Ribbon Honey for Exhibit*.
105. Lincoln Garden Club Annual Garden Tour, June 12, 1999, Lincoln, NE. *Sustainable Landscape Management on an Urban Acreage*.
106. Nebraska Golf Course Superintendent's Association, July 12, 1999, Geneva, NE. *Optimizing Your Turf Insect Management Program*.
107. Beekeepers Workshop, July 24, 1999, UNL-ARDC, Mead, NE. *Arthropods Found in the Bee Yard*.
108. Wachiska Audubon Society Prairie Festival, September 11, 1999, Denton, NE. *Prairie Insect Ecology*.
109. Nebraska Turfgrass Conference, January 10-12, 2000, Omaha, NE. *Insect Management Basics for Turf and Ornamentals and Surface Feeding Insects*.
110. Commercial Lawn and Landscape Update, February 3, 2000, Columbus, NE. *Turf and Ornamental Insect Management and Why Do Pesticides Fail?*
111. Spring Affair, Nebraska Statewide Arboretum, April 29, 2000, Lincoln, NE. *Good Bugs - Bad Bugs*.
112. Nebraska Golf Course Superintendent's Association meeting, June 5, 2000, Bellevue, NE. *Fine-Tuning Your Turf Insect Program*.
113. Nebraska Sports Turf Managers Association Field Day, June 15, 2000. Hastings, NE. *Optimizing Turfgrass Insect Management in Nebraska*.
114. Nebraska Turfgrass Conference, January 8-10, 2001, Omaha, NE. *Insect Management Basics for Turf and Ornamentals and What in the World Happened in 2000? A Turfgrass Insect Update*.
115. Groundskeeper's Workshop, February 21, 2001, Scottsbluff, NE. *Turfgrass Insect ID and Management and New Pesticide Products for Groundskeepers*.
116. Wachiska Audubon Society Annual Backyard Habitat Tour, June 17, 2001, Lincoln, NE. *Promoting Wildlife on an Urban Acreage*.
117. Wachiska Audubon Society Prairie Festival, September 16, 2001, Denton, NE. *Insects on the Prairie*.
118. Nebraska Turfgrass Conference, January 7-9, 2002, Omaha, NE. *You Make the Call and Questions and Answers with UNL Experts*.
119. Commercial Lawn and Landscape Update, February 12, 2002, Columbus, NE. *Turf and Ornamental Insect Management*.
120. Spring Affair, Nebraska Statewide Arboretum, April 22, 2002, Lincoln, NE. *Everything and Anything About Insects*.
121. Mid-West Master Beekeeping Workshop, July 25-27, 2002, UNL-ARDC, Mead, NE. *Exhibiting Honey Products*.
122. Forensic Science (FORSC 201-501), Nebraska Wesleyan University, August 24, 2002, Lincoln, NE. *Introduction to Forensic Entomology*. (Dr. L.G. Higley and T.E. Huntington, Co-presenters).
123. Wachiska Audubon Society Prairie Festival, September 7, 2002, Denton, NE. *Twilight on the Tallgrass: Prairie Insects*.
124. Federal Bureau of Investigation (Evidence Response Team), December 12, 2002, Omaha, NE. *Forensic Entomology Training*.
125. Nebraska Turfgrass Conference, January 6-8, 2003, Omaha, NE. *Turfgrass Insect Management Basics and Turf and Ornamental Insect Management*.
126. Urban Pest Management Conference, January 16-17, 2003. Lincoln, NE. *Bedbugs*.
127. Groundskeeper's Workshop, February 21, 2003, Scottsbluff, NE. *Insects and Drought*.

128. Spring Affair, Nebraska Statewide Arboretum, April 26, 2003, Lincoln, NE. *Insects: Weather or Not, Here They Come!*
129. Mid-West Master Beekeeping Workshop, June 26-28, 2003, UNL-ARDC, Mead, NE. *Stinging Insects.*
130. Forensic Science (FORSC 201-501), Nebraska Wesleyan University, August 23, 2003, Lincoln, NE. *Introduction to Forensic Entomology.* (Dr. L.G. Higley and T.E. Huntington, Co-presenters)
131. Wachiska Audubon Society Prairie Festival, September 6, 2003, Denton, NE. *Twilight on the Tallgrass: Prairie Insects.*
132. Nebraska Turfgrass Conference, January 12-14, 2004, Omaha, NE. *Turfgrass Insect Management Basics* and *Turf and Ornamental Insect Management.*
133. Forensic Science (FORSC 201-501), Nebraska Wesleyan University, August 28, 2004, Lincoln, NE. *Introduction to Forensic Entomology.* (Dr. L.G. Higley and T.E. Huntington, Co-presenters)
134. Wachiska Audubon Society Prairie Festival, September 11, 2004, Denton, NE. *Twilight on the Tallgrass: The Role of Insects.*
135. Herbaceous Perennials and Grasses for Sustainable Landscapes Workshop, November 11, 2004, UNL Dept. Agronomy and Horticulture, Lincoln, NE. *Insect Management for Perennial Plants.*
136. Nebraska Turfgrass Conference, January 10-12, 2005, Omaha, NE. *Turfgrass Insect Management Basics* and *Turf and Ornamental Insect Management.*
137. Commercial Horticulture Clinic, February 16, 2005, Lincoln, NE. Nebr. Coop. Extension. *Insect Pests for Problem Sites.*
138. Herbaceous Perennials and Grasses for Sustainable Landscapes Workshop, February 23, 2005, UNL Dept. Agronomy and Horticulture, Lincoln, NE. *Don't Bug Me!*
139. Nebraska Winery and Grape Growers Forum and Trade Show, March 4-5, 2005, Kearney, NE. *Grape Insect Identification and Management.*
140. Fontanelle Nature Association Seminar Series, April 17, 2005, Bellevue, NE. *CSI: Crime Solving Insects.*
141. Wachiska Audubon Society Prairie Festival, September 10, 2005, Denton, NE. *Twilight on the Tallgrass: The Role of Insects* and *Blacklighting for Insects.*
142. St. Mary's Catholic School, October 23, 2005, Lincoln, NE. *The Incredible World of Insects.*
143. Osher Lifelong Learning Institute (OLLI) Seminar Series, December 5, 2005, Lincoln, NE. *Insects and Crime.*
144. Nebraska Turfgrass Conference, January 10-12, 2006, Omaha, NE. *Turfgrass Insect Management Basics, Turf and Ornamental Insect Management (PAT).*
145. Herbaceous Perennials and Grasses for Low-Input Landscapes Workshop, February 16, 2006, UNL Dept. Agronomy and Horticulture, Lincoln, NE. *Perennial Insect Pest Update.*
146. Retired Physicians Seminar Series, March 22, 2006, Lincoln, NE. *Forensic Entomology: Using Insects to Solve Crimes.*
147. Northeast Lincoln Kiwanis Club Seminar Series, July 19, 2006, Lincoln, NE. *Forensic Entomology: Solving Crimes with Insects.*
148. Forensic Science (FORSC 201-501), Nebraska Wesleyan University, August 11, 2006, Lincoln, NE. *Introduction to Forensic Entomology.* (T.E. Huntington, Co-presenter).
149. Wachiska Audubon Society Prairie Festival, September 16, 2006, Denton, NE. *Twilight on the Tallgrass: The Role of Insects* and *Blacklighting for Insects.*
150. Fontanelle Nature Association Seminar Series, November 11, 2006, Bellevue, NE. *CSI: Crime Solving Insects.*
151. Nebraska Turfgrass Conference, January 8-10, 2007, Omaha, NE. *Turfgrass Insect Management Basics, Turf and Landscape Insect Management (PAT), Turf Insecticide Update, and Japanese Beetles in Nebraska.*
152. Wahoo Public Library, July 24, 2007, Wahoo, NE. *Forensic Entomology.*
153. Wachiska Audubon Society Prairie Festival, September 8, 2007, Denton, NE. *Twilight on the Tallgrass: The Role of Insects* and *Blacklighting on the Prairie.*
154. Lincoln Public Schools, October 5, 2007, Lincoln, NE. *The Incredible World of Insects* and *Maggot Art.*
155. St. Mary's Catholic School, October 25, 2007, Lincoln, NE. *Exploring the Incredible World of Insects* and *Maggot Art.*



156. Nebraska Green Expo (formerly Nebraska Turfgrass Conference), January 14-16, 2008, Omaha, NE. *Turfgrass & Landscape Insect Management Basics, Insect Identification and Control in Turf and Landscape Areas (PAT)*, and *Emerging Insect Pests in Nebraska*.
157. Wahoo Public Library, March 18, 2008, Wahoo, NE. *Forensic Entomology*.
158. Marie Sandoz Conference, March 28-29, 2008, Chadron, NE. *Good Bugs – Bad Bugs: Responsible Insect Management for Home Landscapes* (J.A. Kalisch, Co-presenter).
159. Huntington Public School, April 2, 2008, Lincoln, NE. *Exploring the Incredible World of Insects and Maggot Art*.
160. Wachiska Audubon Society Prairie Festival, September 13, 2008, Denton, NE. *Twilight on the Tallgrass: The Role of Insects* and *Blacklighting on the Prairie*.
161. Osher Lifelong Learning Institute (OLLI) Seminar Series, October 31, 2008, Lincoln, NE. *Good Bugs – Bad Bugs: Responsible IPM for Home Landscapes*.
162. Van Diest Fall Seminar Series. November 5-6, 2008, Lincoln and Kearney, NE. *Fine-Tuning Your Turfgrass Insect Pest Management Program* and *Optimizing Pest Control with the New Turfgrass Insecticides* for golf course professionals (program repeated for lawn care professionals).
163. Nebraska Green Expo, January 11-13, 2009, Council Bluffs, IA. *Turfgrass & Landscape Insect Management Basics, Insect Identification and Control in Lawns and Landscapes (PAT)*, and *What's New in Nebraska*.
164. Lawn & Landscape Update, February 10, 2009, Columbus, NE. *What's New and What's on the Horizon*.
165. Nebraska Golf Course Superintendents Association meeting, March 9, 2009, York, NE. *A Bird's Eye View of Turf and Landscape Management*.
166. Earl May Earth Days Celebration, April 18-19, 2009, Lincoln, NE. *Meet the Beneficial Backyard Bugs*.
167. Morley Public School, May 29, 2009, Lincoln, NE. *Exploring the Incredible World of Insects*.
168. Finke Gardens: First Time Gardeners Workshop, June 1, 2009, Lincoln, NE. *Knowing the Challenges Ahead: Pest Problems and their Solutions*.
169. BioBlitz, September 19-20, 2009, Spring Creek Prairie, Denton, NE. *Prairie Insects*.
170. Wachiska Audubon Society Prairie Festival, September 26, 2009, Denton, NE. *Twilight on the Tallgrass: What's Bugging the Tallgrass* and *Blacklighting on the Prairie*.
171. Van Diest Fall Seminar Series for golf course and lawn care professionals in Eastern and Central Nebraska. November 3-4, 2009, Lincoln and Kearney, NE. *Turfgrass Insect Pest Management for Golf Course Superintendents / Lawn Care Professionals, Getting the Most from the New Turfgrass Insecticides, New and Emerging Pests* (program repeated for lawn care professionals).
172. Nebraska Green Expo, January 11-13, 2010, Council Bluffs, IA. *Turf & Landscape Insect Basics, Insect Identification and Management in Turf and Landscape Areas (PAT)*, and *You Make the Call! Turf Diagnostics*.
173. Urban Pest Management Conference, February 2-3, 2010, Lincoln, NE. *Chiggers and Their Control*.
174. Horticulture Acreage Tour, July 21, 2010, Lincoln, NE. *Sustainable Landscaping on an Urban Acreage*.
175. Wachiska Audubon Society Prairie Festival, September 18, 2010, Denton, NE. *Twilight on the Tallgrass: What's Bugging the Tallgrass* and *Blacklighting on the Prairie*.
176. BioBlitz, June 26-27, 2010, Spring Creek Prairie, Denton, NE. *Prairie Insects*.
177. Nebraska Green Expo, January 10-12, 2011, Council Bluffs, IA. *Turf & Landscape Insect Basics, Insect Identification and Management in Turf and Landscape Areas (PAT)*, and *Insect Control Update*.
178. Kiwanis Club, March 3, 2011, Lincoln, NE. *Forensic Entomology*.
179. Spring Affair, April 23, 2011, Lincoln, NE. *Managing Landscape Insects*.
180. BioBlitz, May 14-15, 2011, Spring Creek Prairie, Denton, NE. *Prairie Insects*.
181. Nebraska Beekeeping Association. June 18, 2011, Kearney, NE. *Judging Honey Exhibits*.
182. Wachiska Audubon Society Prairie Festival, October 2, 2011, Denton, NE. *Insects on the Prairie*.
183. Nebraska Green Expo, January 22-25, 2012, Council Bluffs, IA. *Turf & Landscape Insect Basics, Insect Identification and Management in Turf and Landscape Areas (PAT)*, and *Attracting Insects to Your Landscape*.

184. Lawn & Landscape Update, February 16, 2012, Columbus, NE. *Insects and Mites Affecting Nebraska Landscapes* and *Turfgrass Insect Update*.
185. Spring Affair, April 28, 2012, Lincoln NE. *Fine-tuning Your Landscape IPM Program*.
186. Wachiska Audubon Society Prairie Festival, September 15, 2012, Denton, NE. *Insects' Role on the Prairie*.

#### **CONTRIBUTED PRESENTATIONS, PAPERS OR DISPLAYS**

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<b><i>Presentation</i></b>	<b><i>Years Contributed</i></b>
Field Crop Production series (Crop Protection Clinics, Crop Focus, Conservation Tillage), UN Cooperative Extension.	1984-1988
IPM Field Scout Training, UN Cooperative Extension. Selected field crops entomology topics.	1984-1986
Hail Adjusters Workshop, Lincoln, NE. UN Cooperative Extension. <i>Corn Insects</i> .	1986-1989
Beekeepers Field Day, Lincoln, NE. UN Cooperative Extension and Nebraska Department of Agriculture. Various beekeeping topics.	1984-1995
Master Gardener Training and Satellite Video Workshops, UNL Extension, Lincoln, NE. Selected landscape entomology topics.	1985-Present
In-service Education for Extension Educators, UNL Extension. Selected field crops, urban, turfgrass and horticultural entomology topics.	1984-Present
County and District educational meetings. UNL Extension Selected field crops, urban, turfgrass and horticultural entomology topics.	1984-Present
Commercial Pesticide Applicator Recertification Training, UNL Extension, Lincoln, NE. Ag Plant, Ornamental and Turf, Seed Treatment, Right of Way, Structural, Public Health and Chemigation.	1984-Present
UNL Turfgrass Field Day and Equipment Show. UNL Extension. Various turf insect topics.	1985-Present
Backyard Farmer "Out-of-Studio" Presentations, UNL Extension.	1985-Present
Landscape Connections & Festival of Color, UNL Extension. Selected horticultural entomology topics.	1993-2003
Bug Bash, Department of Entomology/Lincoln Public Schools/Folsom Children's Zoo. <i>Forensic Entomology</i> and <i>AK-SAR-BUG Roach Races</i> .	1997-2006
Forensic Entomology Workshops, L.G. Higley and <b>F.P. Baxendale</b> , Department of Entomology, UNL	2001- 2006
Emerald Ash Borer Awareness and Response, UNL Extension.	2008 - Present

#### **GRANTS RELATED TO EXTENSION**

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*Competitive and Grants-in-Aid*

<b>Title</b>	<b>Grantor</b>	<b>Amount</b>	<b>Investigator(s)</b>	<b>Date</b>
Applied research, publications, and other Extension activities	Selected Agribusinesses	\$24,178	<b>F.P. Baxendale</b>	1984 - 2002
Determination of factors affecting the economic impact and control of the Russian wheat aphid (R.A.), <i>Diuraphis noxia</i> (Murdwi) on wheat, barley, and other small grains in Nebraska.	Nebraska Wheat Board	\$7,500	<b>F.P. Baxendale</b> J.B. Campbell J.E. Watkins J.W. Paustian	1988
Economic impact and management of Russian Wheat Aphid (R.A.), <i>Diuraphis noxia</i> (Murdwi) on wheat in Nebraska.	Nebraska Wheat Board	\$4,000	G.L. Hein <b>F.P. Baxendale</b> J.B. Campbell	1989
Water Conserving Landscape Designs for Nebraska	Nebraska Cooperative Extension (Priority Initiative Enhancement)	\$2,000	D.H. Steinegger <b>F.P. Baxendale</b>	1990
Monitoring Black Cutworms in Nebraska	DowElanco	\$10,000	<b>F.P. Baxendale</b> J.A. Kalisch	1991-1997
Enhancing Water Quality Education	UNL Water Center	\$5,000	D.H. Steinegger et al.	1993
Pest Detective Kiosk	IANR Special Operating Support Funds	\$22,500	Pest Detective Kiosk Team	1994-1997
Low Input Landscapes: A Demonstration for Festival of Color	UNL Water Center	\$5,000	D.H. Steinegger R.E. Gaussoin <b>F.P. Baxendale</b>	1994
Evaluation of Educational Delivery Methods to Enhance Water Quality Education	UNL Water Center	\$5,250	D.H. Steinegger et al.	1995
Development of Multimedia for Extension Programming	DowElanco	\$1,000	<b>F.P. Baxendale</b> J.A. Kalisch	1995
A Study of Selected Educational Methods Utilized at Festival of Color	UNL Water Center	\$5,000	D.H. Steinegger et al.	1996
An Educational Event on Non-point Pollution	UNL Water Center	\$4,000	D.H. Steinegger et al.	1996
Festival of Color	Environmental Trust	\$14,800	D.H. Steinegger et al.	1996
IPM Strategies for Urban Landscapes (Festival of Color)	Nebraska Cooperative Extension IPM Funds	\$5,000	<b>F.P. Baxendale</b> D.H. Steinegger	1996

<b>Title</b>	<b>Grantor</b>	<b>Amount</b>	<b>Investigator(s)</b>	<b>Date</b>
Demonstration of Efficient Water Use in Urban Landscapes (Festival of Color)	UNL Water Center	\$5,000	D.H. Steinegger et al.	1997
Demonstration of Low Input Landscaping (Festival of Color)	Nebraska Cooperative Extension IPM Funds	\$5,000	D.H. Steinegger et al.	1999
Festival of Color	Department of Environmental Quality	\$89,970	D.H. Steinegger et al.	1997-2000
Development, Implementation and Evaluation of a Web-Based Insect Pest Management Guide for Ornamental Trees and Shrubs in the Midwest	EPA/NDA	\$42,500	<b>F.P. Baxendale</b> D.L. Keith	2001-2002
Forensic Entomology	Lincoln Police Department	\$500	L.G. Higley <b>F.P. Baxendale</b>	2001
Development of Extension Circular: <i>Herbaceous Landscape Plants for the Northern Great Plains.</i>	Nebraska Cooperative Extension Funds	\$9,500	K.W. Todd et al.	2004
Forensic Entomology	Nebraska Wesleyan University	\$2,500	L.G. Higley <b>F.P. Baxendale</b>	2002-2006
Emerald Ash Borer – UNL Extension Awareness and Proactive Preparation	Nebraska Extension Action Team Grant	\$7,500	<b>F.P. Baxendale</b> J. A. Schild	2008-2010
Implementation of Turfgrass and Landscape IPM Strategies for Nebraska	Selected Agri-businesses	\$23,350	<b>F.P. Baxendale</b> T.M. Heng-Moss	2008
Nebraska Extension IPM Coordination Program	USDA-CSREES	\$235,725	R.K. Koelsch et al.	2009-2012
Nebraska EIPM-CS Coordination Program	USDA-CSREES	\$223,305	R.K. Koelsch et al.	2010-2013

**TOTAL GRANTS: \$760,078** (as of 12/31/12)

**CONTINUING EDUCATION / PROFESSIONAL IMPROVEMENT**

*Professional Extension Meetings*

- Nebraska Cooperative Ext. Association (NCEA) Annual Meeting 1984, 1986-89, 1991-02, 2004-11
- Cooperative Extension Fall Conference, Grand Island, NE, 2002, 2004-11
- Professional Development Conference (April Update), Lincoln, NE, 1987-01

*Specialized and Advanced Training*

- Commercial Pesticide Applicator Certification Training, Lincoln, NE, 1985, 88, 91, 94, 97, 01, 04, 07
- Beekeepers Shortcourse, Peru, NE, 1986
- Chemigation Certification Training, Univ. of Nebr., Cooperative Extension, Lincoln, NE, 1987
- Artificial Insemination of Honeybee Queens Workshop, Lincoln, NE, 1988
- Fred Pryor Seminar, *How to Supervise People*, Omaha, NE, 1991
- Fred Pryor Seminar, *Managing Priorities*, Lincoln, NE, 1992
- IANR Search Committee Training, Univ. of Nebr., Lincoln, NE, 1993, 95
- Authorware Training Workshop, Univ. of Nebr., Lincoln, NE, 1996
- The "7-Habits of Highly Effective People" Workshop, UNL, Lincoln, NE, 1998
- Americans with Disabilities Supervisory Training Univ. of Nebr., Lincoln, NE, 2000
- Disaster and Homeland Security Training, Univ. of Nebr., Grand Island, NE, 2002
- Forensic Entomology Workshop, Neal Haskell, Instructor, Rensselaer, IN, 2003, 2004

#### *Workshops, Conferences and Seminars*

- Farmland Industries/University Ag Chemical Advisory Board Meeting, Kansas City, KS, 1984-85
- Beekeeper's Field Day, Univ. of Nebr., Cooperative Extension, 1984-95
- Nebraska Aviation Trades Association (NATA) Annual Meeting and Seminar, 1985-87
- Crop Pest Management Update, Univ. of Nebr., Cooperative Extension, 1987-90, 1992
- Ortho Dealer's Workshop, Lincoln, NE, 1984
- Microcomputer Workshop Series, Univ. of Nebr., Cooperative Extension, 1984
- Stress Management Workshop, Univ. of Nebr., Cooperative Extension, 1984
- IPM Field Scout Training Shortcourse, Univ. of Nebr., Cooperative Extension, 1984
- American Cyanamid Research and Development Facilities Tour, Princeton, NJ, 1984
- Dow Ag Chemical Products Usage Patterns Seminar, Lincoln, NE, 1984
- Advanced Lotus Microcomputer Workshop, Univ. of Nebr., Cooperative Extension, 1985
- Enhanced Degradation of Soil Insecticides Seminar, Univ. of Nebr., Lincoln, NE, 1985
- ProSeries Computer Software Workshop, Univ. of Nebr., Lincoln, NE, 1985
- Cooperative National Plant Pest Survey and Detection Conference, Lincoln, NE, 1986
- Expert Systems Faculty Seminar, IANR Computer User Group, Univ. of Nebr., 1986
- Enhanced Biodegradation of Insecticides Workshop, FMC Corporation, Omaha, NE, 1987
- American Cyanamid ag chemical manufacturing plant tour, Hannibal, Missouri, 1987
- Artificial Intelligence/Expert Systems Workshop, Univ. of Nebr., Lincoln, NE, 1987
- Professional Lawn Care Association of America Seminar, Kansas City, MO, 1987
- Expert Systems Workshop, Univ. of Nebr., Cooperative Extension, Lincoln, NE, 1988
- Spider Mite Workers Conference, Lincoln, NE, 1988
- North American Prairie Conference, University of Nebraska, Lincoln, NE, 1988
- Endangered Species Act Workshop, EPA, Lincoln, NE, 1988
- Morocco Project Faculty Conference, Lincoln, NE, 1988
- Di-Syston Usage Patterns Seminar, Mobay Chemical, Overland Park, KS, 1989
- Forestry Pest Management Task Force Conference, Lincoln, NE, 1989
- Active Listening Workshop, Teaching and Learning Center, Lincoln, NE, 1989
- Nebraska Honey Producers Association Annual Meeting, Lincoln, NE, 1989
- Association of Nebraska Nurserymen Annual Meeting, Lincoln, NE, 1990
- National Plant Board Annual Meeting, Lincoln, NE, 1990
- Golf Course Superintendents of America Workshop on Sports Turf, Omaha, NE, 1991
- Rocky Mountain Turf Conference and Trade Show, Denver, CO, 1991
- Midwest Greenscape Expo, Indianapolis, IN, 1993
- Iowa Turfgrass Conference, Des Moines, IA, 1993
- South Dakota Turfgrass Seminar and Trade Show, Sioux Falls, SD, 1993
- Kansas Turfgrass Conference, Topeka, KS, 1993
- Festival of Color, Univ. of Nebr., 1993-2000
- Athletic Turf Management Seminar, Lincoln, NE, 1994
- Iowa State University Shade Tree Short Course, Ames, IA, 1994
- Kansas Vector-Borne Disease Prevention Conference, Manhattan, KS, 1995

- New York State Turf and Grounds Exposition, Rochester, NY, 1995
  - Iowa Turfgrass Conference, Des Moines, IA, 1996
  - John Deere Annual Dealer's Meeting, Orlando, FL, 1996-98
  - North Central Turfgrass Exposition, St. Charles, IL, 1996
  - Biological Control Workshop for Turf and Ornamentals, Amherst, MA, 1997
  - Value-Added Beekeeping Products Workshop, ARDC, Mead, NE, 1998
  - Golf Course Superintendents Association of America Meeting, Anaheim, CA, 1998
  - Cornell Golf Turf Short Course, Ithaca, NY, 1999
  - Iowa Turfgrass Conference, Des Moines, IA, 1999
  - Mid-West Master Beekeeping Workshop, Mead, NE, 1999
  - Ohio Turfgrass Conference, Columbus, OH, 1999
  - Texas A&M PCO Pest Management Conference and Workshop, College Station, TX, 2000, 2003
  - New England Regional Turfgrass Conference, Providence, RI, 2000, 2006
  - Central Missouri Turfgrass Conference, Kansas City, MO, 2001
  - Michigan Turfgrass Conference, East Lansing, MI, 2001
  - Maryland Turfgrass Conference, Timonium, MD, 2001
  - Kansas Vector-Borne Disease Prevention Conference, Manhattan, KS, 2002
  - New York State Turf and Grounds Exposition, Syracuse, NY, 2002
  - Mid-West Master Beekeeping Workshop, Mead, NE, 2003
  - HORTEAST Horticultural Trade Show and Conference, Moncton, Canada, 2005
  - Kansas Turfgrass Conference, Topeka, KS, 2005
  - Nebraska Winery and Grape Growers Forum and Trade Show, Kearney, NE, 2005
  - IACLS-NSCLS Clinical Laboratory Scientists, Council Bluffs, IA, 2005
  - Kansas Turfgrass Conference, Topeka, KS, 2005
  - New England Regional Turfgrass Conference, Providence, RI, 2006
  - Nebraska Turfgrass Conference, Omaha, NE, 1986-2007
  - Turfgrass Field Day and Equipment Show, Univ. of Nebr., 1984-Present
  - Urban Pest Management Conference, Univ. of Nebr., Nebraska Extension, Lincoln, NE, 1993-Present
  - Nebraska Green Expo (formerly Nebraska Turfgrass Conference), Omaha, NE, 2008-Present
  - Golf Course Superintendents Association of America Meetings 2009, 2010, 2012
- Attended meetings of the Nebraska Turfgrass Foundation (NTF), Nebraska Professional Lawn Care Association (NPLCA), Nebraska Golf Course Superintendent's Association (NGCSA), Nebraska Sports Turf Managers Association (NeSTMA), Nebraska Sod Producers Association (NSPA) and Eastern Nebraska Honey Producers.

## RESEARCH ENTOMOLOGY ACCOMPLISHMENTS

My research program is designed to develop effective and environmentally-responsible integrated pest management strategies for arthropods affecting turfgrasses and horticultural plantings in Nebraska. Current emphasis is on identifying the insects and mites associated with buffalograss and zoysiagrass, investigating their biology, ecology, distribution and injury potential, and developing management alternatives for potential pests. Special attention is given to the identification of natural enemies which may play an important role in regulating pest populations, and on locating insect-resistant germplasm. This research emphasizes a multi-disciplinary team approach and has been an integral component of the IANR Turfgrass Science Team effort.

### PLANT CULTIVARS DEVELOPED

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1. Riordan, T.P., **F.P. Baxendale**, S.A. de Shazer, E.J. Kinbacher, J.L. Svoboda, M.C. Engelke and L.A. Wit. 1993. Plant Patent No. 8475, "609 Buffalograss".
2. Riordan, T.P., S.A. de Shazer, L.A. Wit, Jr., **F.P. Baxendale**, E.J. Kinbacher, J.F. Svoboda and J.M. Johnson-Cicalese. 1997. Plant Patent No. 09847, "315 Buffalograss".

3. Riordan, T.P., J.M. Johnson-Cicalese, E.J. Kinbacher, P.J. Johnson, **F.P. Baxendale**, R.E. Gaussoin and R.C. Hansen. 2000. Plant Patent No. 11194, NE86-61 Buffalograss ("Legacy").
4. Riordan, T.P., J.M. Johnson-Cicalese, P.J. Johnson, R.E. Gaussoin, **F.P. Baxendale**, E.J. Kinbacher and R.C. Hansen. 2000. Plant Patent No. 11373, NE91-118 Buffalograss ("Prestige").
5. Riordan, T.P., J.M. Johnson-Cicalese, E.J. Kinbacher, P.J. Johnson, **F.P. Baxendale**, R.E. Gaussoin and R.C. Hansen. 2000. Plant Patent No. 11191, "120 Buffalograss".

#### **PUBLICATIONS RELATED TO RESEARCH**

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\* Denotes senior author was a student under Dr. Baxendale's direction.

\*\* Arthropod Management Tests Online: <http://www.entsoc.org/>

##### *Refereed Journal Articles*

1. Helgesen, R.G. and **F.P. Baxendale**. 1978. Feeding activity of the alfalfa blotch leafminer, *Agromyza frontella* (Rhondani) (Diptera: Agromyzidae). J. N.Y. Entomol. Soc. 86(4):294.
2. **Baxendale, F.P.** and G.L. Teetes. 1981. Production of unisexual progenies by the sorghum midge, *Contarinia sorghicola*. Ann. Entomol. Soc. Am. 74:412-413.
3. **Baxendale, F.P.** and G.L. Teetes. 1983. Factors influencing adult emergence from diapausing sorghum midge, *Contarinia sorghicola* (Diptera: Cecidomyiidae). Environ. Entomol. 12:1064-1067.
4. **Baxendale, F.P.** and G.L. Teetes. 1983. Thermal requirements for emergence of overwintered sorghum midge (Diptera: Cecidomyiidae). Environ. Entomol. 12:1078-1082.
5. **Baxendale, F.P.**, C.L. Lippincott, and G.L. Teetes. 1983. Biology and seasonal abundance of hymenopterous parasitoids of sorghum midge. Environ. Entomol. 12:871-877.
6. **Baxendale, F.P.**, G.L. Teetes, and P.J.H. Sharpe. 1984. Temperature-dependent model for sorghum midge (Diptera: Cecidomyiidae) spring emergence. Environ. Entomol. 13:1566-1571.
7. **Baxendale, F.P.**, G.L. Teetes, P.J.H. Sharpe, and H. Wu. 1984. Temperature-dependent model for development of nondiapausing sorghum midge (Diptera: Cecidomyiidae). Environ. Entomol. 13:1572-1576.
8. Riordan, T.P., S.A. de Shazer, **F.P. Baxendale**, and M.C. Engelke. 1992. Registration of '609' buffalograss. Crop Sci. 32:1511. Journal Series No. 9805.
9. Ellis, M.D.\* and **F.P. Baxendale**. 1994. Comparison of formic acid sampling with other methods used to detect varroa mites (*Varroa jacobsoni* Oudemans). BeeScience. 3(3):141-146. Journal Series No. 10615.
10. **Baxendale, F.P.**, J.M. Johnson-Cicalese, and T.P. Riordan. 1994. *Tridiscus sporoboli* and *Trionymus* sp (Homoptera: Pseudococcidae): potential new mealybug pests of buffalograss turf. J. Kansas Entomol. Soc. 67(2):169-172. Journal Series No. 10377.
11. **Baxendale, F.P.**, D.H. Steinegger, and R.W. Baxendale. 1995. Phytotoxicity evaluation of an insecticidal soap and horticultural oil on six turfgrass species. J. Turfgrass Management 1(2):35-45. Journal Series No. 10508.
12. Riordan, T.P., J.M. Johnson-Cicalese, **F.P. Baxendale**, M.C. Engelke, R.E. Gaussoin, G.L. Horst, and R.C. Shearman. 1995. Registration of '315' buffalograss. Crop Sci. 35:1206. Journal Series No. 10688.
13. Heng-Moss, T.M.\*, **F.P. Baxendale**, J.M. Johnson-Cicalese, and T.P. Riordan. 1997. Non-destructive monitoring of mealybugs (Homoptera: Pseudococcidae) on buffalograss. Intl. Turfgrass Soc. Res. J. 8(1):997-1002. Journal Series No. 11761.
14. Dix, M.E. and **F.P. Baxendale**. 1997. Insect pests and arthropod predators associated with tree-turf landscapes. J. Entomol. Sci. 32(3):257-271. Journal Series No. 11545.
15. Ellis, M.D.\* and **F.P. Baxendale**. 1997. Toxicity of seven monoterpenoids to tracheal mites (Acari: Tarsonemidae) and their honey bee (Hymenoptera: Apidae) hosts when applied as fumigants. J. Econ. Entomol. 90(5):1087-1091. Journal Series No. 11717.
16. Dix, M.E. and **F.P. Baxendale**. 1998. Arthropod on pine foliage in turf landscapes. J. Entomol. Sci. 33(1):113-120. Journal Series No. 11561.
17. Johnson-Cicalese, J.M.\*, **F.P. Baxendale**, T.P. Riordan, and T.M. Heng-Moss. 1998. Identification of mealybug (Homoptera: Pseudococcidae) resistant turf-type buffalograss germplasm. J. Econ. Entomol. 91(1): 340-346. Journal Series No. 11560.

18. Heng-Moss, T.M.\* , **F.P. Baxendale**, and T.P. Riordan. 1998. *Rhopus nigroclavatus* (Ashmead) and *Psuedaphycus* sp. (Hymenoptera: Encyrtidae): two parasitoids of the buffalograss mealybugs, *Tridiscus sporoboli* (Cockerell) and *Trionymus* sp. J. Kansas Entomol. Soc. 71(1): 85-86. Journal Series No. 12090.
19. Heng-Moss, T.M.\* , **F.P. Baxendale**, and T.P. Riordan. 1998. Beneficial arthropods associated with buffalograss. J. Econ. Entomol. 91(5):1167-1172. Journal Series No. 12132.
20. Heng-Moss, T.M.\* , **F.P. Baxendale**, T.P. Riordan, and L.J. Young. 1999. Influence of *Rhopus nigroclavatus* (Ashmead) (Hymenoptera: Encyrtidae) on the mealybugs, *Tridiscus sporoboli* (Cockerell) and *Trionymus* sp. Environ. Entomol. 28(1):123-127. Journal Series No. 12216.
21. **Baxendale, F.P.**, T.M. Heng-Moss, and T.P. Riordan. 1999. *Blissus occiduus* Barber (Hemiptera: Lygaeidae): A chinch bug pest new to buffalograss turf. J. Econ. Entomol. 92(5):1172-1176. Journal Series No. 12491.
22. Johnson, P.J., T.P. Riordan, J.M. Johnson-Cicalese, **F.P. Baxendale**, R.E. Gaussoin, R.C. Shearman, and R.V. Klucas. 2000. Registration of '61' buffalograss. Crop Sci. 40:569-570. Journal Series No. 12361.
23. Riordan, T.P., P.J. Johnson, J.M. Johnson-Cicalese, R.E. Gaussoin, **F.P. Baxendale**, R.C. Shearman, and R.V. Klucas. 2000. Registration of '118' buffalograss. Crop Sci. 40:570-571. Journal Series No. 12363.
24. Johnson-Cicalese, J.M.\* , P.J. Johnson, T.P. Riordan, **F.P. Baxendale**, R.E. Gaussoin, J.E. Watkins, and R.V. Klucas. 2000. Registration of '120' buffalograss. Crop Sci. 40:572. Journal Series No. 12362.
25. **Baxendale, F.P.**, T.P. Weinhold, T.M. Heng-Moss, L.J. Young, and M.A. Zajac. 2001. Residual control of black cutworm, *Agrotis ipsilon* (Lepidoptera: Noctuidae) with selected synthetic pyrethroids. Intl. Turfgrass Soc. Res. J. 9:751-754. Journal Series No. 13152.
26. Heng-Moss, T.M.\* , **F.P. Baxendale**, and T.P. Riordan. 2001. Interactions between the parasitoid *Rhopus nigroclavatus* (Ashmead) (Hymenoptera: Encyrtidae) and its mealybug hosts *Tridiscus sporoboli* (Cockerell) and *Trionymus* sp (Homoptera: Pseudococcidae). Biol. Cont. 22:201-206. Journal Series No. 12998.
27. Ni, X., S.S. Quisenberry, T. Heng-Moss, J. Markwell, L. Higley, **F. Baxendale**, G. Sarath, and R. Klucas. 2001. *In vitro* enzymatic chlorophyll catabolism in wheat elicited by cereal aphid feeding. Entomol. Exp. Appl. 101:159-166.
28. Ni, X., S.S. Quisenberry, T. Heng-Moss, J. Markwell, G. Sarath, R. Klucas, and **F. Baxendale**. 2001. Oxidative responses of resistant and susceptible cereal leaves to symptomatic and nonsymptomatic cereal aphid (Hemiptera: Aphididae) feeding. J. Econ. Entomol. 94:743-751.
29. Heng-Moss, T.M.\* , **F.P. Baxendale**, T.P. Riordan, and J.E. Foster. 2002. Evaluation of buffalograss germplasm for resistance to *Blissus occiduus* (Hemiptera Lygaeidae). J. Econ. Entomol. 95(5): 1054-1058. Journal Series No. 13425.
30. Ni, X., S. Quisenberry, T. Heng-Moss, J. Markwell, L. Higley, **F. Baxendale**, G. Sarath, and R. Klucas. 2002. Dynamic change in photosynthetic pigments and chlorophyll degradation elicited by cereal aphid feeding. Entomol. Exp. App. 105:43-53.
31. Heng-Moss, T.M.\* , X. Ni, T. Macedo, J.P. Markwell, **F.P. Baxendale**, S.S. Quisenberry, and V. Tolmay. 2003. Comparison of chlorophyll and carotenoid concentrations among Russian wheat aphid (Homoptera: Aphididae) -infested wheat isolines. J. Econ. Entomol. 96:475-481. Journal Series No. 17078.
32. Heng-Moss, T.M.\* , **F.P. Baxendale**, T.P. Riordan, L.J. Young, and K.W. Lee. 2003. Chinch bug resistant buffalograss: an investigation of tolerance, antixenosis, and antibiosis. J. Econ. Entomol. 96(6):1942-1951. Journal Series No. 14106.
33. Eickhoff, T.E.\* , **F.P. Baxendale**, T.M. Heng-Moss, and E.E. Blankenship. 2004. Turfgrass, crop, and weed hosts of *Blissus occiduus* (Hemiptera: Lygaeidae). J. Econ. Entomol. 97(1):67-73. Journal Series No. 14123.
34. Heng-Moss, T., G. Sarath, **F. Baxendale**, D. Novak, S. Bose, N. Xinhi, and S. Quisenberry. 2004. Characterization of oxidative enzyme changes in buffalograss challenged by *Blissus occiduus*. J. Econ. Entomol. 97(3):1086-1095. Journal Series No. 14298.



35. Gulsen, O., T.M. Heng-Moss, R.C. Shearman, P.S. Baenziger, D.J. Lee, and **F.P. Baxendale**. 2004. Buffalograss germplasm resistance to *Blissus occiduus* (Hemiptera Lygaeidae). J. Econ. Entomol. 97:2101-2105. Journal Series No. 14557.
36. Heng-Moss, T.M., **F.P. Baxendale**, T. Macedo, L. Franzen, L.G. Higley, and G. Sarath. 2006. Physiological responses of resistant and susceptible buffalograsses to chinch bug feeding. J. Econ. Entomol. 99:222-228. Journal Series No. 14519.
37. Anderson, W.G. \*, T.M. Heng-Moss, and **F.P. Baxendale**. 2006. Evaluation of cool- and warm-season grasses for resistance to multiple chinch bug (Hemiptera: Blissidae) species. J. Econ. Entomol. 99 (1):203-211. Journal Series No. 14999.
38. Anderson, W.G. \*, T.M. Heng-Moss, **F.P. Baxendale**, L.M. Baird, G. Sarath, and L.G. Higley. 2006. Chinch bug (Hemiptera: Blissidae) mouthpart morphology, probing frequencies, and locations on resistant and susceptible germplasm. J. Econ. Entomol. 99 (1):212-221. Journal Series No. 14521.
39. Eickhoff, T.E. \*, **F.P. Baxendale**, and T.M. Heng-Moss. 2006. Host preference of the chinch bug, *Blissus occiduus*. J. Insect Sci. 6:07. Journal Series No. 14607.
40. Robbins, P.S., S R. Alm, C D. Armstrong, A.L. Averill, T.C. Baker, R.J. Bauernfiend, **F.P. Baxendale**, S.K. Braman, R.L. Brandenburg, D.B. Cash, G.J. Couch, R.S. Cowles, R.L. Crocker, Z.D. DeLamar, T.G. Dittl, S.M. Fitzpatrick, K.L. Flanders, T. Forgatsch, T.J. Gibb, B.D. Gill, D.O. Gilrein, C.S. Gorsuch, A.M. Hammond, P.D. Hastings, D.W. Held, P.R. Heller, R. Hiskes, J.L. Holliman, W.G. Hudson, M.G. Klein, V.L. Krischik, D. Lee, C.E. Linn, Jr., N.J. Luce, K.E. MacKenzie, C.M. Mannion, S. Polavarapu, D.A. Potter, W.L. Roelofs, B.M. Royals, G.A. Salsbury, N.M. Schiff, D.J. Shetlar, M. Skinner, B. Sparks, J.A. Sutschek, T.P. Sutschek, S.R. Swier, M.M. Sylvia, N.J. Vickers, P.J. Vittum, R.B. Weidman, D.C. Weber, R.C. Williamson, and M.G. Villani. 2006. Trapping *Phyllophaga* spp. (Coleoptera: Scarabaeidae: Melolonthinae) with sex attractants in the United States and Canada. J. Insect Sci: Vol.6 Article 39.
41. Huntington, T.E. \*, L.G. Higley, and **F.P. Baxendale**. 2007. Maggot Development During Morgue Storage and Its Effect on Estimating the Post-Mortem Interval. J. Forensic Sci. 52:453-458.
42. Carstens, J. \*, T. Heng-Moss, **F. Baxendale**, R. Gaussoin, K. Frank, and L. Young. 2007. Influence of buffalograss management practices on the chinch bug, *Blissus occiduus* Barber, and its beneficial arthropods. J. Econ. Entomol. 100 (1):136-147.
43. Eickhoff, T.E. \*, T.M. Heng-Moss, and **F.P. Baxendale**. 2007. Evaluation of warm-season turfgrasses for resistance to the chinch bug, *Blissus occiduus*. HortScience 42(3):718-720.
44. Eickhoff, T.E. \*, T.M. Heng-Moss, **F.P. Baxendale** and J.E. Foster. 2008. Levels tolerance, antibiosis and antixenosis among resistant buffalograsses and zoysiagrasses. J. Econ. Entomol. 101(2):533-540.
45. Carstens, J.D. \*, **F.P. Baxendale**, T.M. Heng-Moss and R.J. Wright. 2008. Predation of the chinch bug, *Blissus occiduus* Barber (Hemiptera: Blissidae) by *Geocoris uliginosus* (Say) (Hemiptera: Lygaeidae). J. Kansas Entomol. Soc. 81(4):328-338.
46. Rethwisch, M.D., **F.P. Baxendale**, and D.R. Dollison. 2009. First report of northern mole cricket damage on a Nebraska golf course (Orthoptera: Gryllotalpidae). J. Kansas Entomol. Soc. 82(1):103-105.
47. Gulsen, O., T.E. Eickhoff, T.M. Heng-Moss, R.C. Shearman, **F.P. Baxendale**, G. Sarath, and D.J. Lee. 2010. Characterization of peroxidase changes in resistant and susceptible warm-season turfgrasses challenged by *Blissus occiduus* Barber. J. Arthropod-Plant Interactions. 4: 45-55.
48. Johnson-Cicalese, J.M. \*, **F.P. Baxendale**, T.P. Riordan, T.M. Heng-Moss, and L.M. Baird. 2011. Evaluation of buffalograss leaf pubescence and its effect on mealybug (Homoptera: Pseudococcidae) host selection. J. Kansas Entomol. Soc. 84(1): 71-77.
49. Tangtrakulwanich, K. \*, H. Chen, **F. Baxendale**, G. Brewer, and J. Zhu. 2011. Characterization of olfactory sensilla of *Stomoxys calcitrans* and electrophysiological responses to odorant compounds associated with their host and oviposition media. J. Medical and Veterinary Entomol. 25 (3): 327-336.
50. Schaeffer, S.K. \*, **F.P. Baxendale**, T.M. Heng-Moss, R.D. Sitz, G. Sarath, R.B. Mitchell, and R.C. Shearman. 2010. Characterization of the arthropod community associated with switchgrass (Poales: Poaceae) in Nebraska. J. Kansas Entomol. Soc. 84(2): 87-104.
51. Stamm, M.D. \*, **F.P. Baxendale**, T.M. Heng-Moss, B.D. Siegfried, E.E. Blankenship, and R.E. Gaussoin. 2011. Dose-response relationships of imidacloprid, thiamethoxam, and clothianidin to *Blissus occiduus* (Hemiptera: Blissidae). J. Econ. Entomol. 104 (1): 205-210.

52. Zhu, J.J., A. Li, S. Pritchard, K. Tangtrakulwanich, **F. Baxendale**, and G. Brewer. 2011. Contact and Fumigant Toxicity of a Botanical-based Feeding Deterrent of the Stable Fly, *Stomoxys calcitrans* (Diptera: Muscidae). *J. Agric. Food Chem.* 59 (18): 10394-400.
53. Zhu, J.J., D.R. Berkebile, C.A. Dunlap, A. Zhang; D. Boxler, K. Tangtrakulwanich, R.W. Behle, **F. Baxendale**, and G. Brewer. 2012. Nepetalactones from essential oil of *Nepeta cataria* represent a stable fly feeding and oviposition repellent. *J. Medical and Veterinary Entomology* 26(2):131-138.
54. Samarakoon, S.U., S.R. Skoda, **F.P. Baxendale**, and J.E. Foster. 2012. A molecular key for the identification of blow flies in southeastern Nebraska. *J. Forensic Science*. Onlinelibrary. Wiley.com (DOI: 10.1111/j.1556-4029.2012.02182.x).
55. Stamm, M.D.\* T.M. Heng-Moss, **F.P. Baxendale**, B.D. Siegfried, R.E. Gaussoin, D.D. Snow and D.A. Cassada. 2012. Effect of distribution and concentration of topically applied neonicotinoid insecticides in buffalograss, *Buchloe dactyloides*, leaf tissues on the differential mortality of *Blissus occiduus* under field conditions. *Pest Management Science*. Onlinelibrary. Wiley.com (DOI: 10.1002/ps.3387).
56. Doehling, C. \*, **F. Baxendale**, T. Heng-Moss, and W. Schacht. 2012. Comparison of pasture management strategy on the abundance of four target beetle groups. *Review of Undergraduate Research in Agricultural and Life Sciences*. Vol. 7 [2012], Iss. 1, Art. 2.
57. Eickhoff, T.E. \*, G. Sarath, T.M. Heng-Moss, **F.P. Baxendale**, S.K. Schaeffer, and P. Twigg. 2011. Isolation and identification of the sbpx-1 peroxidase expressed in *Sorghum bicolor* in response to *Schizaphis graminum*. *J. Arthropod-Plant Interactions*. *(In Preparation)*.
58. Rethwisch, M.D., D.D. Siekman, K.A. Feehan, and **F.P. Baxendale**. 2010. Biological observations and first reports of damage by *Dyscinetus picipes* (Bermeister) (Coleoptera: Scarabaeidae: Cyclocephalini) in east central Nebraska. *J. Kansas Entomol. Soc.* *(In Preparation)*.
59. Anderson, W.G. \*, T.E. Eickhoff, T.M. Heng-Moss, and **F.P. Baxendale**. Techniques for rearing chinch bugs (Hemiptera: Blissidae) in the greenhouse and laboratory. *(In Preparation)*.

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7. Heng-Moss, T.M., **F.P. Baxendale**, R.C. Shearman and T.E. Eickhoff. 2005. Resistant Turfgrasses for Chinch Bug Management. USGA Turfgrass and Environmental Research Online. Vol. 4 (19): 1-7.
8. Heng-Moss, T.M., **F.P. Baxendale**, R.C. Shearman and T.E. Eickhoff. 2006. Resistant Turfgrasses for Improved Chinch Bug Management. USGA Green Section Record, (January-February 2006), pp 7-11.
9. Heng-Moss, T.M. and **F.P. Baxendale**. 2006. Buffalograsses with Resistance to Multiple Chinch Bug Species. Turfgrass News. Turfgrass Producers International. May/June 2006.
10. Heng-Moss, T.M., **F.P. Baxendale**, R.C. Shearman, and T.E. Eickhoff. 2006. Physiological and Biochemical Responses of Resistant and Susceptible Buffalograsses to Chinch Bug Feeding. USGA Turfgrass and Environmental Research Online. Vol. 5(20): 1-11.
11. Schaeffer, S.K.\* **and F.P. Baxendale**. 2008. Switchgrass Insect Research. ARDC Visions, Jan/Feb 2008, Vol. 12, No. 1, p. 1.
12. Heng-Moss, T.M., O. Gulsen, T. Eickhoff, R. Shearman, and **F. Baxendale**. 2010. The Role of Peroxidases in the Defense Response of Warm-season Turfgrasses to Chinch Bugs. USGA Turfgrass and Environmental Research Online 9: 1-10.

**GRANTS RELATED TO RESEARCH**

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*Proprietary Research*

Title	Grantor	Amount	Investigator	Date
Testing for Efficacy	DowElanco	\$5,000	<b>F.P. Baxendale</b>	1994

*Funded Competitive and Grants-in-Aid*

Title	Grantor	Amount	Investigator(s)	Date
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<b>Title</b>	<b>Grantor</b>	<b>Amount</b>	<b>Investigator(s)</b>	<b>Date</b>
Alternative Pest Management Strategies for Nebraska	Selected Agri-businesses	\$1,287,195 (\$85,750)	<b>F.P. Baxendale</b> T.M. Heng-Moss	1987- Present (2012)
Modification, utilization and evaluation of a Ryan Mataway Overseeder for subsurface placement of soil insecticides and other bioactive agents	Cushman Corporation	\$12,880	<b>F.P. Baxendale</b> K. Von Bargen R.D. Grisso P.J. Vittum T.P. Riordan	1990
Modification and evaluation of Cushman's prototype applicator for control of soil-inhabiting arthropod pests of turf using subsurface-placed insecticides and other bioactive agents	Cushman Corporation	\$6,000	<b>F.P. Baxendale</b> K. Von Bargen R.D. Grisso P.J. Vittum T.P. Riordan	1991
Role of Beneficial Insects in Tree/Turf Landscape	USDA-Forest Service	\$780	<b>F.P. Baxendale</b> M.E. Dix	1992
Buffalograss: Breeding and Management for Water and Energy Efficient Golf Course Turf	USGA	\$331,500	T.P. Riordan R.E. Gaussoin <b>F.P. Baxendale</b> P.J. Johnson L.A. Wit	1992- 1997
Influence of trees on distribution and abundance of insect pests and their natural enemies in an urban tree/turf landscape.	USDA-Forest Service (Research Challenge Cost-Share Program)	\$1,000	M.E. Dix <b>F.P. Baxendale</b>	1993
Turfgrass Research in Nebraska	Nebraska Turfgrass Association	\$209,300	Turfgrass Science Team	1994- 2005
Research Apprenticeship Program for Minority High School Students	CSRS-USDA	\$5,000	L.G. Higley <b>F.P. Baxendale</b>	1995
Turf and Forage Grass Seed Production in Western Nebraska	ARD Special Funds	\$20,000	D.D. Baltensperger et al.	1995
National Kentucky Bluegrass Cultivar Billbug Resistance Evaluation	NTEP	\$6,000	<b>F.P. Baxendale</b>	1995- 2000
Precision Root Zone Injection	John Deere & Company	\$35,019	<b>F.P. Baxendale,</b> A.P. Weinhold R.D. Grisso	1997-99
Germplasm Development for Buffalograss Varieties	USGA	\$200,000	P.J. Johnson T.P. Riordan <b>F.P. Baxendale</b>	1998- 2002

<b>Title</b>	<b>Grantor</b>	<b>Amount</b>	<b>Investigator(s)</b>	<b>Date</b>
Management Practices for Golf Course Roughs, Fairways, and Tees Using Buffalograss	USGA	\$75,000	T.P. Riordan et al.	1998-2000
Arthropods Associated with Native Grass Buffer Strips in Central Texas	UNL Big XII Faculty Fellowship Program	\$2,500	<b>F.P. Baxendale</b>	1999
Characterization of Protein Changes in Plants Challenged by Sap-Feeding Insects	IANR Inter-disciplinary Grant	\$39,860	T.M. Heng-Moss et al.	2000-2001
Resistant Turfgrasses for Improved Chinch Bug Management on Golf Courses	U.S. Golf Association	\$70,000	T.M. Heng-Moss <b>F.P. Baxendale</b>	2002-2008
Resistant Turfgrasses for Improved Chinch Bug Management	International Turf Producers Foundation	\$21,500	T.M. Heng-Moss <b>F.P. Baxendale</b>	2003-2006
Insect Resistant Sorghum: An Investigation of the Physiological and Biochemical Mechanisms	Nebraska Sorghum Board	\$14,000	T.M. Heng-Moss G. Sarath Z B Mayo <b>F.P. Baxendale</b>	2004-2006
A Phenological Network for Ecological Viticulture	ARD Interdisciplinary Research Grant	\$40,000	P.E. Read et al.	2004-2006
Insect Functional Genomics: Applications to Pest Management and Environmental Protection	Strategic Research Cluster Grant	\$50,000	B.D Siegfried T.M. Heng-Moss <b>F.P. Baxendale</b> L.G. Higley	2004-2006
The High Plains Initiative for Integrated Phenology: Predicting the Behavior and Life Cycles of Introduced and Native Plants, Insects, and Plant Diseases in the Landscape	Strategic Research Cluster Grant	\$50,000	P.S. Baenziger et al.	2004-2006
Precision Series Automated Pipetting System	ARD Competitive Equipment Grant	\$17,077	T.M. Heng-Moss, B.D. Siegfried L.G. Higley <b>F.P. Baxendale</b>	2004
Thermo-Cycler	ARD Equipment Funds	\$24,000	B. Siegfried T. Heng-Moss L. Higley <b>F. Baxendale</b> L. Meinke	2005

Title	Grantor	Amount	Investigator(s)	Date
An Investigation of the Interactions Between Imidacloprid and Peroxidase	Bayer Environmental Sciences	\$30,250	T.M. Heng-Moss <b>F.P. Baxendale</b> T.E. Eickhoff	2005-2007
Evaluation of Autodissemination Traps for Biological Control of Japanese Beetles	Nebraska Department of Agriculture	\$58,732	R.J. Wright <b>F.P. Baxendale</b>	2005-2006
Differential Gene Expression	Gard Funds	\$38,142	T. Heng-Moss B. Siegfried L. Higley <b>F. Baxendale</b>	2006-2008
Identifying Critical Stimuli for the Attraction and Oviposition of Stable Fly Populations	USDA-ARS (SCA)	\$80,000	G.J. Brewer <b>F.P. Baxendale</b>	2007-2012
Molecular Characterization of Chinch Bug-Resistant Buffalograsses	U.S. Golf Association	\$79,423	T. Heng-Moss R. Shearman <b>F. Baxendale</b> P. Twigg B. Abeyo	2010-2013
Sustainable Production and Distribution of Bioenergy for the Central USA	USDA NIFA Bioenergy CAP	\$3,889,381	Perrin, R.K., et al.	2012-2016

**TOTAL GRANTS: \$6,864,717** (as of 12/31/12)

#### INVITED PRESENTATIONS OR PAPERS

\* Denotes presenter was a student under Dr. Baxendale's direction.

- Baxendale, F.P.** and T.P. Riordan. 1995. *Buffalograss: Entomological Perspective on a New Turfgrass*. Entomological Society of America, Las Vegas, NV, December 17-21, 1995.
- Baxendale, F.P.** 1999. *New Agents for Pest Management in Turf*. North Central Branch of the Entomological Society of America, Des Moines, IA, March 28-31, 1999.
- Heng-Moss, T.M.\* and **F.P. Baxendale**. 2002. *Buffalograss Resistance to the Chinch Bug, Blissus occiduus*. Entomological Society of America, Fort Lauderdale, FL, November 17-20, 2002.
- Baxendale, F.P.** 2004. *Field Observations of the Pasture Mealybug, Balanococcus poae*. AgResearch, Lincoln, New Zealand, February 12, 2004.
- Baxendale, F.P.** 2004. *The Pasture Mealybug, Balanococcus poae in New Zealand*. Center for Grassland Studies Seminar Series, Lincoln, NE, October 4, 2004.
- Eickhoff, T.E.\* , T.M. Heng-Moss, and **F.P. Baxendale**. 2004. *Peroxidases: Their Role in the Resistance of Buffalograss to Blissus occiduus*. Native Turfgrass Meeting, United States Golf Association, Fort Collins, CO.
- Huntington, T.E.\* and **F.P. Baxendale**. 2005. *A Year in Review: Forensic Entomology Literature in 2004*. North American Forensic Entomology Conference. July 20-22, 2005, Orlando, FL.
- Heng-Moss, T.M., T.E. Eickhoff\*, and **F.P. Baxendale**. 2005. *An Investigation of the Physiological and Biochemical Mechanisms of Chinch Bug-Resistant Turfgrasses*. National ESA Meeting, December 15-18, 2005, Ft. Lauderdale, FL.
- Eickhoff, T.E.\* , T.M. Heng-Moss, **F.P. Baxendale**, P. Twigg, and G. Sarath. 2007. *Resistance to the Western Chinch Bug: Traditional and Molecular Host Plant Resistance Approaches*. In ESA Symposium: Making Connections between Traditional and New Approaches for Host Plant Resistance Research. National ESA Meeting, December 9-12, 2007, San Diego, CA.



10. **Baxendale, F.P.** and J.A. Kalisch. 2008. *Itchin' for Answers: Pyemotes Mites in the Midwest*. North Central Branch of the Entomological Society of America, Columbus, OH, March 24-27, 2008.
11. **Baxendale, F.P.** 2008. *Acelepryn: A University Perspective*. Acelepryn Launch and Workshop Series sponsored by DuPont, Sydney, Brisbane, Canberra, and Melbourne, Australia, June 9-13, 2008.

#### CONTRIBUTED PRESENTATIONS OR PAPERS

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\* Denotes presenter was a student under Dr. Baxendale's direction.

##### *International*

1. Johnson-Cicalese, J.M.\* , **F.P. Baxendale**, and T.P. Riordan. 1994. *Differences in Susceptibility to Mealybugs Among Turf-Type Buffalograss Selections*. International Plant Resistance Workshop, Stillwater, OK, February 27-March 2, 1994.
2. **Baxendale, F.P.** 1995. *Turfgrass Entomology Update*. Turfgrass Producers International Conference, Omaha, NE, July 27-28, 1995.
3. Heng-Moss, T.M.\* , **F.P. Baxendale**, J.M. Johnson-Cicalese, and T.P. Riordan. 1997. *Non-Destructive Monitoring of Mealybugs (Homoptera: Pseudococcidae) on Buffalograss*. International Turfgrass Research Conference, Sydney, Australia, July 20-25, 1997.
4. Heng-Moss, T.M.\* , **F.P. Baxendale**, and T.P. Riordan. 1998. *Screening Buffalograss Germplasm for Resistance to the "Buffalograss" Chinch Bug, Blissus sp.* International Plant Resistance to Insects Workshop. Memphis, TN, March 15-18, 1998.
5. Ni, X., S.S. Quisenberry, T.M. Heng-Moss, and **F.P. Baxendale**. 2000. *Changes of oxidative enzyme activities from aphid-infested cereal leaves*. International Plant Resistance Workshop, Fort Collins, CO, February 28-March 2, 2000.
6. Heng-Moss, T.M.\* , X. Ni, **F.P. Baxendale**, S.S. Quisenberry and J.P. Markwell. 2000. *Impact of Russian wheat aphid feeding on chlorophyll and carotenoid levels of resistant and susceptible wheat*. International Plant Resistance Workshop, Fort Collins, CO, February 28-March 2, 2000.
7. Heng-Moss, T.M.\* , **F.P. Baxendale**, G. Sarath, X. Ni, and S.S. Quisenberry. 2000. *Characterization of protein changes in buffalograsses challenged by chinch bug feeding*. International Entomology Congress, Foz do Iguacu, Brazil, August 20-26, 2000.
8. **Baxendale, F.P.**, T.P. Weinhold, T.M. Heng-Moss, L.J. Young, and M.A. Zajac. 2001. *Residual Control of Black Cutworm, Agrotis ipsilon (Lepidoptera: Noctuidae) with Selected Synthetic Pyrethroids*. International Turfgrass Research Conference, Toronto, Canada, July 15-21, 2001.
9. **Baxendale, F.P.**, T.P. Weinhold, and J.M. Waquil. 2002. *High Pressure Liquid Injection: A Novel Approach for Controlling Soil-Inhabiting Arthropods*. 19<sup>o</sup> Congresso Brasileiro de Entomologia, Manaus, Brazil, June 16-21, 2002.
10. Pennell, C.G.L., Popay, A.J., and **F.P. Baxendale**. 2004. *The Pasture Mealy Bug, Balanococcus poae (Maskell) in New Zealand Pastures*. 8<sup>th</sup> Australasian Conference on Grassland Invertebrate Ecology, Christchurch, New Zealand, June 1-3, 2004.
11. **Baxendale, F.P.**, C.G.L. Pennell, A.J. Popay, T.R. Glare, and T.A. Jackson. 2004. *Field Observations of the Pasture Mealybug, Balanococcus poae (Maskell) in New Zealand*. International Entomology Congress, Brisbane, Australia, August 15-21, 2004.
12. Eickhoff, T.E.\* , **F.P. Baxendale**, T.M. Heng-Moss, G. Sarath, and D. Novak. 2004. *Identification and Characterization of Peroxidases in Resistant Sorghums*. International Entomology Congress, Brisbane, Australia, August 15-21, 2004.
13. Samarakoon, S.U., S.R. Skoda, **F.P. Baxendale**, and J.E. Foster. 2006. *Molecular Taxonomic Keys - Are They the Solution for Species Identification of Forensic Entomology?* Fifth International Symposium on Molecular Insect Science, Tucson, AZ, May 20-24, 2006.
14. **Baxendale, F.P.** and M.D. Stamm. 2007. *Aloft and Arena for Management of Subsurface and Surface Inhabiting Insects in Turfgrass*, Arysta Turf and Landscape International Pest Management Workshop, San Juan, Puerto Rico, October 17-19, 2007.
15. Rangasamy, M., E. Backus, M. Stamm\*, T. Heng-Moss, **F. Baxendale**, and H. McAuslane. 2011. *Waveform library for chinch bugs (Heteroptera: Blissidae): characterization of EPG waveforms at multiple input impedances*. Hemiptera – Plant Interactions Symposium. Piracicaba, Brazil, June 11-14, 2011.

*National*

1. **Baxendale, F.P.** 1980. *Diapause Termination, Overwintering Emergence of Seasonal Abundance of the Sorghum Midge, Contarinia sorghicola*. Entomological Society of America, Atlanta, GA, November 30-December 4, 1980.
2. **Baxendale, F.P.** 1982. *A Temperature-Driven Developmental Model for the Sorghum Midge, Contarinia sorghicola*. Entomological Society of America, Toronto, Canada, November 29-December 3, 1982.
3. **Baxendale, F.P.** 1989. *Buffalograss Insect Research in Nebraska*. National Turfgrass Entomology Workshop, State College, PA, March 15-16, 1989.
4. **Baxendale, F.P.** 1990. *Turf Insect Research*. National Turfgrass Entomology Workshop, Newport, RI, March 12-13, 1990.
5. Westerholt, S.R.\* , T.P. Riordan, and **F.P. Baxendale**. 1990. *Kentucky Bluegrass Criteria For Screening Bluegrass Billbug, Sphenophorus parvulus Gyllenhal*. American Society of Agronomy, Crop Science Society of America and Soil Science Society of America, October 1990.
6. **Baxendale, F.P.** 1990. *Japanese Beetles in the Midwest*. Biennial Ornamental Workshop on Disease and Insects, Crossnore, NC, October 29-November 2, 1990.
7. **Baxendale, F.P.** 1991. *Turfgrass Insect Research in Nebraska*. National Turfgrass Entomology Workshop, Annapolis, MD, January 30-31, 1991.
8. Riordan, T.P. and **F.P. Baxendale**. 1991. *Advances in Resistance to Turfgrass Insect Pests*. American Society of Agronomy, Crop Science Society of America and Soil Science Society of America, Denver, CO, October 26-31, 1991.
9. Westerholt, S.R.\* , **F.P. Baxendale**, T.P. Riordan, and G.L. Horst. 1991. *Kentucky Bluegrass Criteria for the Screening of Bluegrass Billbug, Sphenophorus parvulus*. American Society of Agronomy, Crop Science Society of America and Soil Science Society of America, Denver, CO, October 26-31, 1991.
10. de Shazer, S.A., T.P. Riordan, G.L. Horst, and **F.P. Baxendale**. 1991. *Buffalograss Evaluation: A National Trial*. American Society of Agronomy, Crop Science Society of America and Soil Science Society of America, Denver, CO, October 26-31, 1991.
11. **Baxendale, F.P.** 1992. *Turfgrass Insect Research in Nebraska*. National Turfgrass Entomology Workshop, Melbourne, FL, March 23-25, 1992.
12. Johnson-Cicalese, J.M.\* , **F.P. Baxendale**, and T.P. Riordan. 1992. *Preliminary Studies on the Resistance of Buffalograss Selection to Insect Pests*. American Society of Agronomy, Crop Science Society of America and Soil Science Society of American, Minneapolis, MN, November 1-6, 1992.
13. **Baxendale, F.P.** 1992. *Insect Pests of Turfgrasses in the Midwest*. American Cyanamid Turfgrass Entomology Workshop, Princeton, NJ, November 9-11, 1992.
14. **Baxendale, F.P.** 1993. *Nebraska Turfgrass Insect Research Update*. National Turfgrass Entomology Workshop, Wrightsville Beach, NC, March 29-30, 1993.
15. Heng, T.M.\* , J.M. Johnson-Cicalese, **F.P. Baxendale**, and T.P. Riordan. 1994. *A Non-destructive Method for Monitoring Mealybugs on Buffalograss*. North Central Branch of the Entomological Society of America, Springfield, IL, March 12-17, 1994.
16. **Baxendale, F.P.** 1994. *Turfgrass Insect Management Strategies in Nebraska*. National Turfgrass Entomology Workshop, Wrightsville Beach, NC, March 27-29, 1994.
17. **Baxendale, F.P.** 1994. *Ornamental Insect Pest Update in Nebraska*. Biennial Ornamental Workshop on Diseases and Insects, Crossnore, NC, October 17-21, 1994.
18. Dix, M.E. and **F.P. Baxendale**. 1994. *Distribution of Insect Pests and Their Natural Enemies in Urban Ecosystems*. American Foresters/Canadian Institute of Forestry Convention, Anchorage, AK, September 18-22, 1994.
19. Dix, M.E. and **F.P. Baxendale**. 1994. *A Survey of Insect Pests and their Natural Enemies in Urban Ecosystems*. Annual Convention of the Society of American Foresters, Anchorage, AK, September 18-24, 1994.
20. Johnson-Cicalese, J.M.\* , T.P. Riordan, and **F.P. Baxendale**. 1994. *Resistance to Mealybugs among Turf-type Buffalograss Selections*. American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America, Seattle, WA, November 13-18, 1994.

21. Ellis, M.D.\* and **F.P. Baxendale**. 1994. *Response of Acarapis woodi Mites and Their Host Honey Bees to Seven Terpenoides*. Entomological Society of America, Dallas, TX, December 14-18, 1994.
22. Dix, M.E. and **F.P. Baxendale**. 1995. *Insect Pests and Their Natural Enemies in Urban Ecosystems*. North Central Branch of the Entomological Society of America, Lexington, KY, March 26-29, 1995.
23. Dix, M.E. and **F.P. Baxendale**. 1995. *Distribution of Arthropod Pests and Predators in Tree/Turf Landscapes*. North American Agroforestry Conference, Moscow, ID, July 25, 1995.
24. **Baxendale, F.P.** 1995. *Buffalograss Insect Management Strategies in Nebraska*. National Turfgrass Entomology Workshop, Omaha, NE, October 22-24, 1995.
25. Westerholt, S.R.\* , T.P. Riordan, and **F.P. Baxendale**. 1995. *The Influence of Kentucky Bluegrass Reproductive Growth Stage on Bluegrass Billbug Infestations*. American Society of Agronomy, Crop Science Society of America and Soil Science Society of America, St. Louis, MO, October 30-November 3, 1995.
26. **Baxendale, F.P.** 1996. *New Technologies in Turfgrass Insect Management and Turfgrass Entomology in Nebraska*. Valent Turf and Landscape Plant Management Seminar, Montreal, Canada, August 12-15, 1996.
27. Heng-Moss, T.M.\* , **F.P. Baxendale**, and T.P. Riordan. 1996. *Investigation of Interactions Between the Parasitoid Rhopus sp. and its Mealybug Hosts*. Entomological Society of America, Louisville, KY, December 7-12, 1996.
28. Heng-Moss, T.M.\* , T.P. Riordan, and **F.P. Baxendale**. 1997. *Buffalograss: An Investigation of the Beneficial Arthropods*. American Society of Agronomy, Crop Science Society of America, and Soil Science Society of America, Anaheim, CA, October 26-30, 1997.
29. Heng-Moss, T.M.\* , **F.P. Baxendale**, and T.P. Riordan. 1997. *The Influence of Rhopus nigroclavatus on Buffalograss Mealybug Populations*. Entomological Society of America, Nashville, TN, December 14-18, 1997.
30. Robbins, P.S., M.R. Zeiss, K.L. Flanders, A.L. Averill, M.G. Villani, R.L. Crocker, V. Krischik, M. Sylvania, A.M. Hammond, **F.P. Baxendale**, S. Polavarapu, Z. Delamar, H. Arguello, X. Wei, and W.T. Nailon. 1998. *Trapping of Various Phyllophaga Species Using Synthetic Sex Attractants*. Entomological Society of America, Las Vegas, NV, November 8-12, 1998.
31. Heng-Moss, T.M.\* , **F.P. Baxendale**, S.S. Quisenberry, and L.J. Young. 1999. *Resistance of Turf-Type Buffalograsses to the Chinch Bug, Blissus occiduus (Hemiptera: Lygaeidae)*. Entomological Society of America, Atlanta, GA, December 12-16, 1999.
32. Eickhoff, T.E.\* , **F.P. Baxendale**, and T.P. Riordan. 2000. *Turfgrass, Crop, and Weed Hosts of the Chinch Bug, Blissus occiduus*. Entomological Society of America, Montreal, Canada, December 3-6, 2000.
33. Heng-Moss, T.M.\* , **F.P. Baxendale**, L.G. Higley, and T.P. Riordan. 2000. *Photosynthetic Response of Buffalograss to Chinch Bug Injury*. Entomological Society of America, Montreal, Canada, December 3-6, 2000.
34. Ni, X., S.S. Quisenberry, J. Markwell, T. Heng-Moss, L. Higley, **F. Baxendale**, G. Sarath, and R. Klucas. 2000. *In Vitro Evidence of Enzymatic Chlorophyll Catabolism Caused by Cereal Aphids (Hemiptera: Aphididae) on Aphid-Infested Wheat Leaves*. Entomological Society of America, Montreal, Canada, December 3-6, 2000.
35. Eickhoff, T.E.\* , **F.P. Baxendale**, and T.P. Riordan. 2001. *Feeding Preferences of the Chinch Bug, Blissus occiduus, on Selected Turfgrass, Crop and Weed Species*. Entomological Society of America, San Diego, CA, December 9-12, 2001.
36. Ni, X., S.S. Quisenberry, T. Heng-Moss, J. Markwell, L. Higley, **F. Baxendale**, G. Sarath, and R. Klucas. 2001. *Photosynthetic Pigments and Chlorophyll Degradation Enzyme Activities from Aphid (Hemiptera: Aphididae): Damaged and Non-Damaged Wheat*. Entomological Society of America, San Diego, CA, December 9-12, 2001.
37. Carstens, J.D.\* , **F.P. Baxendale**, and T.M. Heng-Moss. 2002. *Predation of the Chinch Bug, Blissus occiduus Barber, by Geocoris spp. in Buffalograss Turf*. Entomological Society of America, Fort Lauderdale, FL, November 17-20, 2002.
38. Higley, L.G., P. Nabity, **F.P. Baxendale**, and T.E. Huntington. 2003. *Does Anyone Really Know What Time It Is: Problems in Estimating P.M.I. With Insect Thermal Development*. North American Forensic Entomology Conference, Las Vegas, NV, August 2003.

39. Eickhoff, T.E.\* , **F.P. Baxendale**, and T.M. Heng-Moss. 2003. *Resistance of Zoysiagrass and Bermudagrass Cultivars to Blissus occiduus, (Hemiptera: Lygaeidae)*. Entomological Society of America, Cincinnati, OH, October 26-30, 2003.
40. Anderson, W.G.\* , T.M. Heng-Moss, and **F.P. Baxendale**. 2003. *Feeding Mechanisms of Four Chinch Bug Species on Resistant and Susceptible Plants*. Entomological Society of America, Cincinnati, OH, October 26-30, 2003.
41. Huntington, T.E.\* , L.G. Higley, and **F.P. Baxendale**. 2004. *Temperature-Dependent Development of the Blow Fly, Calliphora vicina (Diptera: Calliphoridae) and the Effects on the Estimation of the Postmortem Interval*. American Association of Forensic Sciences, Dallas, TX, February 20, 2004.
42. Eickhoff, T.E.\* , **F.P. Baxendale**, and T.M. Heng-Moss. 2004. *Characterization of Resistance of Warm-Season Turfgrasses to the Chinch Bug, Blissus occiduus*. Entomological Society of America, Salt Lake City, UT, November 14-17, 2004.
43. Huntington, T.E.\* and **F.P. Baxendale**. 2005. *A Year in Review: Forensic Entomology Research Published in 2004*. North American Forensic Entomology Conference, Orlando, FL, July 21-23, 2005.
44. Eickhoff, T.E.\* , P. Nability, T. Heng-Moss, and **F. Baxendale**. 2005. *Characterization of Peroxidase Changes in Warm-Season Turfgrasses Challenged by the Chinch Bug, Blissus occiduus*. National ESA Meeting, Ft. Lauderdale, FL, December 14-18, 2005.
45. Huntington, T.E.\* , L.G. Higley, and **F.P. Baxendale**. 2006. *Maggot Development During Morgue Storage and the Effects on the Estimation of the Postmortem Interval*. American Academy of Forensic Sciences Annual Meeting, Seattle, WA, February 20-25, 2006.
46. Wasem, C.M.\* , S. Gamet, **F.P. Baxendale**, and P.E. Read. 2006. *A Phenological Network for Ecological Viticulture in Nebraska: Preliminary Observations*. American Society for Enology and Viticulture-Eastern Section, Rochester, NY, July 11, 2006.
47. **Baxendale, F.P.**, T.E. Eickhoff and M.D. Stamm. 2006. *Arena: Management of Subsurface and Surface Feeders in Turfgrass*, Jacksonville, FL, October 16-18, 2006.
48. Eickhoff, T.E.\* , T.M. Heng-Moss, P. Twigg, T. Donze, G. Sarath, and **F.P. Baxendale**. 2006. *Use of RQ-PCR to Quantify Changes in Peroxidase Gene Expression of Greenbug, Schizaphis graminum, - Resistant and -Susceptible Sorghum Cultivars*. National ESA Meeting, Indianapolis, IN, December 10-13, 2006.
49. Toda, L.\* , T.M., Heng-Moss, **F.P. Baxendale**, and T.E. Eickhoff. 2006. *Screening Buffalograss Germplasm for Resistance to Blissus occiduus, Barber (Hemiptera: Blissidae)*. National ESA Meeting, Indianapolis, IN, December 10-13, 2006.
50. Wasem, C.M.\* , **F.P. Baxendale**, R.J. Wright, and G.Y. Yuen. 2006. *Pathogenicity of Metarhizium anisopliae ESC-1 for Adults, Eggs, and Larvae of Japanese Beetles, Popillia japonica (Coleoptera: Scarabaeidae)*. National ESA Meeting, Indianapolis, IN, December 10-13, 2006.
51. Toda, L.\* , P. Twigg, T.M. Heng-Moss, R.C. Shearman, and **F.P. Baxendale**. 2007. *Characterization of defense-related gene expression levels in chinch bug resistant buffalograsses*. National ESA Meeting, San Diego, CA, December 9-12, 2007.
52. Schaeffer, S.K.\* , **F.P. Baxendale**, and T.M. Heng-Moss. 2008. *Arthropods Associated with Switchgrass (Panicum virgatum L.) in Nebraska*. National Turfgrass Entomology Workshop, Gainesville, FL, October 27-29, 2008.
53. Stamm, M.D.\* , **F.P. Baxendale**, and T.M. Heng-Moss. 2008. *Differential Responses of Chinch Bugs to Neonicotinyl Insecticides*. National Turfgrass Entomology Workshop, Gainesville, FL, October 27-29, 2008.
54. Stamm, M.D.\* , T.M. Heng-Moss, **F.P. Baxendale**, and B.D. Siegfried. 2008. *Dose-response Relationships of Neonicotinyl Insecticides to Blissus occiduus and B. leucopterus hirtus*. Entomological Society of America, Reno, NV, November 16-19, 2008.
55. Schaeffer, S.K.\* , **F.P. Baxendale**, T.M. Heng-Moss, G. Sarath, and R. B. Mitchell. 2008. *Characterization of the Arthropod Community in Nebraska Switchgrass (Panicum virgatum L.)*. Entomological Society of America, Reno, NV, November 16-19, 2008.
56. Stamm, M.D.\* , **F.P. Baxendale**, T.M. Heng-Moss, B.D. Siegfried, and R.E. Gaussoin. 2009. *Dose-response relationships of clothianidin, imidacloprid, and thiamethoxam to Blissus occiduus*. Entomological Society of America, Indianapolis, IN, December 13-16, 2009.

57. Schaeffer, S.K.\* , **F.P. Baxendale**, T.M. Heng-Moss, and R.D. Sitz. 2009. *A characterization of the arthropod community associated with switchgrass (Panicum virgatum L.) in Nebraska*. Entomological Society of America, Indianapolis, IN, December 13-16, 2009.
58. Stamm, M.D.\* , **F.P. Baxendale**, T.M. Heng-Moss, B.D. Siegfried, and R.E. Gaussoin. 2010. *Effect of selected neonicotinoid insecticides on Blissus occiduus: Spatial and temporal quantification of clothianidin, imidacloprid, and thiamethoxam in buffalograss*. Entomological Society of America, San Diego, CA, December 12-15, 2010.
59. Ramm, C.M.\* , T.M. Heng-Moss, **F.P. Baxendale**, and P. Twigg. 2010. *Molecular insights into the defense response of buffalograss to Blissus occiduus (Hemiptera: Blissidae) feeding using qRT-PCR*. Entomological Society of America, San Diego, CA, December 12-15, 2010.
60. Tangtrakulwanich, K.\* , H. Chen, **F.P. Baxendale**, G.J. Brewer, and J. Zhu. 2010. *Characterization of olfactory sensilla of Stomoxys calcitrans and electrophysiological response to odorant compounds associated with their host and oviposition media*. Entomological Society of America, San Diego, CA, December 12-15, 2010.
61. Fithian, R.A.\* , T.M. Heng-Moss, G. Sarath, and **F.P. Baxendale**. 2010. *Evaluation of tetraploid switchgrasses for resistance to greenbugs, Schizaphis graminum and chinch bugs, Blissus occiduus*. Entomological Society of America, San Diego, CA, December 12-15, 2010.
62. Stamm, M.D.\* , T.M. Heng-Moss, **F.P. Baxendale**, B.D. Siegfried, and R.E. Gaussoin. 2011. *Transcriptional profiling of soybean to assess physiological effects of neonicotinoid seed treatment*. Entomological Society of America, Reno, NV, November 13-16, 2011.
63. Ramm, C.M.\* , T.M. Heng-Moss, **F.P. Baxendale**, L.M. Baird, and J. Walston. 2011. *Characterization of western chinch bug, Blissus occiduus, salivary glands*. Entomological Society of America, Reno, NV, November 13-16, 2011.
64. Stamm, M.D.\* , **F.P. Baxendale**, T.M. Heng-Moss, B.D. Siegfried, T.E. Hunt, R.C. Reece, and P. Chandran. 2012. *Effects of neonicotinoid seed treatments on soybean aphid (Aphis glycines) feeding behavior and soybean physiology*. Entomological Society of America, Knoxville, TN, November 11-14, 2012.

#### *Regional*

1. **Baxendale, F.P.** 1978. *Production of Unisexual Progenies by Sorghum Midge*. Annual Texas Agricultural Extension Service Research Review and Guide Revision Conference, College Station, TX, October 10-11, 1978.
2. **Baxendale, F.P.** 1979. *Studies of Diapause in Sorghum Midge*. Texas Agricultural Experiment Station Sorghum Workshop, Corpus Christi, TX, June 25-26, 1979.
3. **Baxendale, F.P.** 1979. *Factors Influencing the Termination of Sorghum Midge Diapause*. Annual Texas Agricultural Extension Service Research Review and Guide Revision Conference, College Station, TX, October 3-4, 1979.
4. **Baxendale, F.P.** 1980. *Diapause Studies in the Sorghum Midge*. Southwestern Branch of the Entomological Society of America, Brownsville, TX, February 11-13, 1980.
5. **Baxendale, F.P.** 1980. *Population Dynamics of the Sorghum Midge*. Annual Texas Agricultural Extension Service Research Review and Guide Revision Conference, College Station, TX, October 28-29, 1980.
6. **Baxendale, F.P.** 1981. *Diapause Termination of the Sorghum Midge*. Twelfth Biennial Grain Sorghum Research and Utilization Conference, Lubbock, TX, February 25-27, 1981.
7. **Baxendale, F.P.** 1981. *Population Dynamics of Sorghum Midge in Texas*. Twelfth Biennial Grain Sorghum Research and Utilization Conference, Lubbock, TX, February 25-27, 1981.
8. **Baxendale, F.P.** 1981. *Temperature-dependent Model for Spring Emergence of Overwintered Sorghum Midge*. Annual Texas Agricultural Extension Service Research Review and Guide Revision Conference, College Station, TX, October 27-30, 1981.
9. **Baxendale, F.P.** 1982. *Emergence of Overwintered Sorghum Midge, Contarinia sorghicola*. Southwestern Branch of the Entomological Society of America, El Paso, TX, February 8-10, 1982.
10. **Baxendale, F.P.** 1989. *Tridiscus sporoboli, and Trionymus Sp.: Potential New Mealybug Pests of Buffalograss in Nebraska*. Central Branch of the Entomological Society of America, Louisville, KY, March 13-15, 1989.

11. **Baxendale, F.P.**, S.V. Johnson, and J.A. Kalisch. 1990. *Occurrence of Japanese beetles, Popillia japonica Newman in Nebraska*. North Central Branch of the Entomological Society of America, Grand Rapids, MI, March 18-20, 1990.
12. Hein, G.L., **F.P. Baxendale**, and J.W. Paustian. 1990. *Seasonal Development of Russian Wheat Aphid Infestations in the Nebraska Panhandle*. North Central Branch of the Entomological Society of America, Grand Rapids, MI, March 18-20, 1990.
13. **Baxendale, F.P.** 1991. *Blissus sp.: a New Pest of Buffalograss Turf in Nebraska*. North Central Branch of the Entomological Society of America, Milwaukee, WI, March 17-20, 1991.
14. **Baxendale, F.P.**, P.J. Vittum, K. Von Bargen, and R.D. Grisso. 1992. *Subsurface Placement of Insecticide for Control of White Grubs in Turf*. North Central Branch of the Entomological Society of America, Kansas City, KS, March 15-18, 1992.
15. **Baxendale, F.P.**, D.H. Steinegger, and R.W. Baxendale. 1994. *Phytotoxicity Evaluation of an Insecticidal Soap and Horticultural Oil on Six Turfgrass Species*. North Central Branch of the Entomological Society of America, Springfield, IL, March 12-17, 1994.
16. **Baxendale, F.P.** and C.S. Sadof. 1994. *Practical Biological Control in Urban Landscapes*. Biological Control of Insects Conference, NCR-125, Univ. of Nebr., Lincoln, NE, October 31-November 3, 1994.
17. Dix, M.E. and **F.P. Baxendale**. 1995. *Insect Pests and Natural Enemies in Urban Ecosystems*. North Central Branch of the Entomological Society of America, Lexington, KY, March 26-29, 1995.
18. Heng-Moss, T.M.\* , **F.P. Baxendale**, and T.P. Riordan. 1996. *Beneficial Arthropod Community Associated with Buffalograss*. North Central Branch of the Entomological Society of America, Omaha, NE, March 24-27, 1996.
19. Baxendale, R.W., W. Cranshaw, and **F.P. Baxendale**. 1996. *Most Commonly Asked Questions About the Use of Oils as Insecticides*. North Central Branch of the Entomological Society of America, Omaha, NE, March 24-27, 1996.
20. Dix, M.E. and **F.P. Baxendale**. 1996. *Arthropod Distribution in the Turf Canopy of Pine/Turf Landscapes*. North Central Branch of the Entomological Society of America, Omaha, NE, March 24-27, 1996.
21. Heng-Moss, T.M.\* , **F.P. Baxendale**, and T.P. Riordan. 1997. *Natural Enemies Associated with Buffalograss*. North Central Branch of the Entomological Society of America, Columbus, OH, March 23-26, 1997.
22. **Baxendale, F.P.** 1998. *Subsurface Technology*. Western Regional Coordinating Committee (WRCC-11) annual meeting, Lincoln, NE, June 28-30, 1998.
23. **Baxendale, F.P.**, T.M. Heng-Moss, and T.P. Riordan. 1999. *Blissus occiduus Barber (Hemiptera: Lygaeidae): A New Chinch Bug Pest of Buffalograss Turf*. North Central Branch of the Entomological Society of America, Des Moines, IA, March 28-31, 1999.
24. Weinhold, A.P.\* , **F.P. Baxendale**, and R.D. Grisso. 1999. *High Pressure Injection for Control of Insects in Turfgrass*. North Central Branch of the Entomological Society of America, Des Moines, IA, March 28-31, 1999.
25. Eickhoff, T.E.\* , **F.P. Baxendale**, and T.P. Riordan. 2001. *Reproductive Hosts of the Chinch Bug, Blissus occiduus*. North Central Branch of the Entomological Society of America, Ft. Collins, CO, March 25-28, 2001.
26. Heng-Moss, T.M.\* , **F.P. Baxendale**, G. Sarath, X. Ni, and S.S. Quisenberry. 2001. *Oxidative Responses of Resistant and Susceptible Buffalograss to Blissus occiduus Feeding*. North Central Branch of the Entomological Society of America, Ft. Collins, CO, March 25-28, 2001.
27. Eickhoff, T.E.\* , **F.P. Baxendale**, and T.P. Riordan. 2002. *Grass hosts of the Chinch Bug, Blissus occiduus*. North Central Branch of the Entomological Society of America, East Lansing, MI, March 24-27, 2002.
28. Carstens, J.D.\* , **F.P. Baxendale**, and T.M. Heng-Moss. 2002. *Influence of Buffalograss Management Practices on the Chinch Bug, Blissus occiduus (Barber), and its Natural Enemies*. North Central Branch of the Entomological Society of America, East Lansing, MI, March 24-27, 2002.
29. Macedo, T.B., T.M. Heng-Moss, X. Ni, J.P. Markwell, **F.P. Baxendale**, and S.S. Quisenberry. 2002. *Comparison of Chlorophyll and Carotenoid Contents in "Betta" Wheat Isolines*. North Central Branch of the Entomological Society of America, East Lansing, MI, March 24-27, 2002.

30. Novak, D., T.M. Heng-Moss, S. Bose, G. Sarath, **F.P. Baxendale**, and Z B Mayo. 2002. *Characterization of Protein Changes in Sorghum Challenged by Greenbug Feeding*. North Central Branch of the Entomological Society of America, East Lansing, MI, March 24-27, 2002.
31. Carstens, J.D. \*, **F.P. Baxendale**, and T.M. Heng-Moss. 2003. *Potential for Biological Control of the Chinch Bug, Blissus occiduus, in Buffalograss*. North Central Branch of the Entomological Society of America, Madison, WI, March 23-26, 2003.
32. Huntington, T.E. \*, W.J. Allgeier, and **F.P. Baxendale**. 2003. *Who Done It? Exploring Forensic Entomology with Young Detectives*. North Central Branch of the Entomological Society of America, Madison, WI, March 23-26, 2003.
33. Anderson, W.G. \*, T.M. Heng-Moss and **F.P. Baxendale**. 2003. *Resistance to Multiple Chinch Bug Species in Buffalograss and Sorghum*. North Central Branch of the Entomological Society of America, Madison, WI, March 23-26, 2003.
34. Anderson, W.G. \*, T.M. Heng-Moss, and **F.P. Baxendale**. 2004. *Differences in Feeding Behavior of Two Chinch Bug Species on Resistant and Susceptible Buffalograss and Sorghum Germplasm*. North Central Branch of the Entomological Society of America, Kansas City, MO, March 28-31, 2004.
35. Huntington, T.E. \*, L.G. Higley, and **F.P. Baxendale**. 2004. *Coming Out of the Closet: A Case Study in Forensic Entomology*. North Central Branch of the Entomological Society of America, Kansas City, MO, March 28-31, 2004.
36. Huntington, T.E. \*, L.G. Higley, and **F.P. Baxendale**. 2004. *Coming Out of the Closet: A Case Study in Forensic Entomology*. 80<sup>th</sup> Annual Meeting Central States Entomological Society / Kansas Entomological Society, Lincoln, NE, April 16-17, 2004.
37. Anderson, W. \*, T. Heng-Moss, and **F. Baxendale**. 2005. *An Investigation of Chinch Bug Mouthpart Morphology*. North Central Branch of Entomological Society of America, West Lafayette, IN.
38. Samarakoon, S.U. \*, S.R. Skoda, **F.P. Baxendale**, and J.E. Foster. 2006. *PCR-RFLP for Identifying Forensically Important Blowfly Species in Southeastern Nebraska*. North Central Branch of Entomological Society of America, Bloomington, IL, March 26-29, 2006.
39. Stamm, M.D. \*, **F.P. Baxendale**, and T.M. Heng-Moss. 2008. *Differential Responses of Chinch Bugs to Neonicotinyl Insecticides*. North Central Branch of Entomological Society of America, Columbus, OH, March 24-27, 2008.
40. Ramm, C.M. \*, A.J. Saathoff, T.M. Heng-Moss, **F.P. Baxendale**, P. Twigg, and L. Baird. 2012. *Expression Profiling of Three Defense-related Buffalograss Transcripts in Response to Chinch Bug Feeding*. North Central Branch of Entomological Society of America, Lincoln, NE, June 3-6, 2012.
41. Stamm, M.D. \*, T.M. Heng-Moss, **F.P. Baxendale**, B.D. Siegfried, T.E. Hunt, and R.C. Reece. 2012. *Soybean Aphid (Aphis glycines) Feeding Behavior on Thiamethoxam-Treated Soybeans*. North Central Branch of Entomological Society of America, Lincoln, NE, June 3-6, 2012.

#### Nebraska

1. **Baxendale, F.P.** 1991. *Insecticide Performance Studies in Nebraska*. Nebraska Golf Course Superintendent's Association, Lincoln, NE, March 3, 1991.
2. **Baxendale, F.P.** 1991. *Turf Entomology Research Update*. U.S. Golf Association Research Update, Mead, NE, July 10, 1991.
3. **Baxendale, F.P.** 1992. *Entomology Research Update*. U.S. Golf Association Research Update, Mead, NE, July 29, 1992.
4. **Baxendale, F.P.** 1993. *Arthropods Associated with Buffalograss*. Department of Entomology Seminar, Univ. of Nebr., Lincoln, NE, February 4, 1993.
5. **Baxendale, F.P.** 1993. *Turfgrass Entomology Research Update*. U.S. Golf Association Research Update, Mead, NE, August 18, 1993.
6. **Baxendale, F.P.** 1994. *Buffalograss Insect Research Update*. U.S. Golf Association Research Update, ARDC, Mead, NE, August 1994.
7. **Baxendale, F.P.** 1996. *Buffalograss Entomology*. U.S. Golf Association Research Update. ARDC, Mead, NE, September 4, 1996.
8. **Baxendale, F.P.** 1998. *Turfgrass Entomology in Nebraska*. U.S. Golf Association Research Update. ARDC, Mead, NE, July 29, 1998.

9. **Baxendale, F.P.** 2000. *Kentucky Bluegrass Resistance to the Bluegrass Billbug*. National Turfgrass Evaluation Program Update. ARDC, Mead, NE, June 1, 2000.
10. **Baxendale, F.P.** and T.E. Eickhoff. 2002. *Buffalograss Research Update*. Board Certified Entomologists of Mid-America Summer Meeting. Stock Seed Farm, Murdock, NE, August 17, 2002.
11. **Baxendale, F.P.** 2004. *The Pasture Mealybug, Balanococcus poae, in New Zealand Pastures*. Department of Entomology Seminar, Univ. of Nebr., Lincoln, NE, May 11, 2004.

## CONTINUING EDUCATION / PROFESSIONAL IMPROVEMENT

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### *Faculty Development Fellowship*

- Conducted field research on the pasture mealybug, *Balanococcus poae*, at AgResearch, Canterbury Agriculture & Science Center in Lincoln, New Zealand from September 15, 2003 - March 15, 2004.

### *Professional/Scholarly Meetings*

- American Chemical Society, 1992
- Central States (Kansas) Entomological Society, 1985
- Congresso Brasileiro de Entomologia, Manaus, Brazil, 2002
- Entomological Society of America, Southwestern Branch, 1980, 82
- Entomological Society of America, National, 1980, 82, 85-86, 88-90, 92-02, 2005-present
- Entomological Society of America, Eastern Branch, 1983
- Entomological Society of America, North Central Branch, 1985-present
- Golf Course Superintendents Association of America, 1996-98, 2001, 2009-2012
- International Association for Identification, Nebraska Chapter, 2004-07
- § International Entomological Society of America, 2000, 04
- § International Plant Resistance to Insects Biennial Workshop, 1994, 96, 98, 00, 2008
- § International Turfgrass Society Research Conference, 1997, 2001
- § National Turfgrass Entomology Workshop, 1989-11
- § North American Forensic Entomology Association, 2003-05, 2007
- § North Central Regional Committee-46 (Corn Rootworms), 1985
- § North Central Regional Committee-125 (Biological Control of Arthropods), 1986
- § North Central Regional Committee-10 (Turfgrass), 1990
- § North Central Regional Committee-98 (Insects of Landscape Trees and Shrubs), 1992
- § U.S. Golf Association Research Update, ARDC, Ithaca, NE, 1988-10
- § Western Regional Coordinating Committee-11 (Turfgrass), 1990, 98
- § Western Regional Coordinating Committee-66 (HPR), 2000

### *Specialized and Advanced Training*

- § Expert Systems Comprehensive Training, Texas Instruments, Lincoln, NE, 1987
- § Horticulture 425/825, Turfgrass Science and Culture (Audit), Univ. of Nebr., 1989
- § Forensic Entomology Workshop, Dr. Neal Haskell, Instructor, Rensselaer, IN, June 4-5, 2003, 2004
- § Blow Fly Taxonomy Workshop, Dr. Terry Whitworth, North American Forensic Entomology Association Vancouver, B.C., 2007

### *Workshops, Conferences and Seminars*

- Sorghum Workshop, TAES, Corpus Christi, TX, 1979
- Grain Sorghum Research and Utilization Conference, Lubbock, TX, 1981
- Russian Wheat Aphid Regional Meeting, Guymon, OK, 1987
- Grant Writing Workshop, Office of Sponsored Programs, Lincoln, NE, 1990
- Turf and Ornamental Entomology Symposium (Ciba-Geigy), Raleigh, NC, 1991
- Good Laboratory Practices Informal Conference, ESA, Baltimore, MD, 1992
- Lotus 1-2-3 Workshop, IANR Computing, Lincoln, NE, 1992
- Ornamental Workshop on Diseases and Insects, Crossnore, NC, 1992, 94, 96
- SAS Training Workshop, Department of Biometry, Lincoln, NE, 1992
- Turf Entomology Workshop (American Cyanamid), Princeton, NJ, 1992



- BioSys, Inc. Entomopathogenic Nematode Conference, 1993, 94
- Great Plains Tree Pest Workshop, Lincoln, NE, 1993
- SAS Version 6.08 for Windows Seminar, IANR Computing, Lincoln, NE, 1993
- Biological Control of Insects Conference, NCR-125, Lincoln, NE, 1994
- Hazardous Waste Disposal Training, Univ. of Nebr., Lincoln, NE, 1994
- International Plant Resistance Workshop, Stillwater, OK, 1994
- Turfgrass Sod Producers International Conference, Omaha, NE, 1995
- Arysta LifeSciences Entomology Workshop, 2005-2007
- Valent Turf and Landscape Plant Management Seminar, 1996, 98, 2000, 04, 06
- EHS Colloquium Series: Chemical Safety, 2007
- UNL Office of Research: Responsible Conduct of Research (D. Vasgird, Presenter), 2008
- Attended numerous University seminars presented by faculty, students and visiting scholars

#### **ADDITIONAL RESEARCH ACCOMPLISHMENTS**

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##### *Collaborative Activities*

- I sponsored a visit by Dr. Pat Vittum from the University of Massachusetts in 1991. Dr. Vittum is collaborating with me on the subsurface placement of soil insecticides project with Cushman Corporation.
- In 1992, I sponsored a visit to the United States by Dr. Moftah A. Ali, El Minia University in Egypt. Dr. Ali spent six months in my laboratory as a visiting scientist investigating the subsurface placement of biological control agents for control of white grubs in turf.
- I traveled to Auburn University in July 1992 to collaborate with Dr. Pat Cobb on a project designed to evaluate the subsurface placement of insecticides for mole cricket control.
- In August 1992, I hosted Tracey Michaels from Mycogen Corporation. I worked with Tracey on a study designed to evaluate the effectiveness of experimental strains of *Bacillus thuringiensis* for control of white grubs in turf.
- I traveled to Cornell University in June 1993 to collaborate with Dr. Mike Villani to explore the possibility of developing a cooperative project designed to evaluate biological control agents for management of turfgrass insect pests.
- I hosted Dr. Tim Gibb from Purdue University (June 1993) and Dr. Bob Bauernfeind from Kansas State University (July 1994). We (Drs. Tim Gibb, Bob Bauernfeind and **Fred Baxendale**) are developing a regional masked chafer light-trapping program designed to improve our ability to predict annual white grub activity in the Midwest.
- In June 1995, I traveled to Cornell University and University of Massachusetts to conduct collaborative turfgrass insect research with Drs. Mike Villani and Pat Vittum.
- In November 1997, I traveled to Cornell University and University of Massachusetts to conduct collaborative turfgrass insect research with Drs. Mike Villani and Pat Vittum.
- I hosted Drs. Tom Henry, U.S. National Museum and Al Wheeler, Clemson University (August 1998) to help work out the taxonomy of the "Buffalograss" Chinch bug (subsequently identified as *Blissus occiduus* Barber by T.J. Henry).
- I traveled to Auburn University in October 1998 to collaborate with Dr. Pat Cobb on a project involving subsurface application techniques for insect control.
- I collaborated on the development and served as an invited lecturer for a DuPont Professional Products Turfgrass Entomology Workshop Series in Sydney, Brisbane, Canberra, and Melbourne, Australia, June 9-13, 2008.
- I co-sponsored a visit by Dr. Ian Chivers, CEO, Native Seeds of Australia, in October 2008. Dr. Chivers lectured to classes, gave a seminar, and discussed potential interactive research efforts with scientists (Drs. Fred Baxendale, Roch Gaussoin, and Bob Shearman) at UNL.
- Research Technician III Mitch Stamm and I traveled to the Monsanto Research and Demonstration Facility near Monmouth, IL in August 2009 to discuss collaborative research and education opportunities with facility manager Dr. Tom Eickhoff.

- I participated in the BioBlitz Biological Survey at Spring Creek Prairie, September 2009 and June 2011.

## TEACHING ENTOMOLOGY ACCOMPLISHMENTS

Although I have no formal teaching appointment, I strongly believe the training of students should be an integral part of a balanced program at an academic institution, and that the overall quality of a program can often be measured by the accomplishments of its graduates. Accordingly, graduate and undergraduate education is an important component of my overall entomology program.

### COURSES TAUGHT

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- Co-developed and taught a 2-credit Special Topics in Life Sciences (Biological Science 998) course, *Golf Turf Biology*, Summer I & II 1996.
- I served as the Instructor for a 3 credit hour Turfgrass Entomology course (MSU - ENT 364) as part of the Michigan State University / China Turfgrass Management Program at Sichuan Agricultural University in Ya'an, China. October 15-26, 2012.

### STUDENT ADVISING

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#### Undergraduate Students

##### *Student Recruitment*

Effective student recruitment is essential for the vigor and future growth of our department. Each year, I spend over **60** hours (and reach nearly **1,000** youth and young adults) promoting the University of Nebraska, IANR, CASNR, and the Department of Entomology. Major recruitment opportunities include 4-H entomology at the Nebraska State Fair, Backyard Farmer, *Twilight on the Tallgrass Festival* at Spring Creek Prairie, educational events at the Lincoln Children's Zoo, and presentations, nature walks, and hands-on activities for youth groups including Boy and Girl Scouts of America, public and private schools. My recruitment efforts are designed to stimulate interest in the science of entomology and encourage participants to consider the University for their future educational endeavors.

- DeLana Ramirez, Junior - Pius X High School, Research Apprenticeship Program for Minority Students, USDA/CSRS, Summer 1995.
- Provided a recruitment presentation for FFA officers and faculty advisors, 2006
- Participated in Department of Entomology's annual *Experience the Power of Bugs* Open House, 2007-Present

##### *CASNR Study Abroad Program*

- I served as a faculty co-leader for the Study Abroad Program to Costa Rica for Insect Science undergraduates, March 2009

##### *Independent Study Projects (ENTO 496)*

- § Troy Merkel, 2 Credit Hours – Spring 1994.  
Title: Light trapping as a management tool for southern masked chafer (white grubs) in turfgrass.
- § Tiffany Heng, 2 Credit Hours – Spring 1995.  
Title: Laboratory rearing techniques for buffalograss mealybugs and an investigation of mealybug development and parasitism.
- § Bill Irving, 3 Credit Hours – Fall 1997.  
Title: An investigation of the reproductive behavior, fecundity and sex ratio of laboratory-reared buffalograss chinch bugs.
- § Bill Japp, 3 Credit Hours – Fall 1997.

Title: Determination of developmental rates for buffalograss chinch bugs reared at constant temperatures in the laboratory.

#### *Senior Thesis Projects*

- § Dana Novak – Spring 2002. (**Advisory Committee**), Department of Biochemistry, UNL  
Title: Responses of Resistant and Susceptible Sorghums to Aphid Infestation.

#### *UCARE Projects*

- Jessica Daehnke – 2003-2004. (**Co-Adviser**), Department of Entomology, UNL  
Title: Identification of Greenbug-Resistant Sorghum.
- Ashley Effken – 2006-2007. (**Co-Adviser**), Department of Entomology, UNL  
Title: Implementing Monitoring Protocols for Pyemotes Itch Mites.
- Jeff Hays – 2007-2008. (**Co-Adviser**), Department of Entomology, UNL  
Title: Seasonal Occurrence of Japanese Beetles in Nebraska.
- Josh Chess – 2008-2009. (**Adviser**), Department of Entomology, UNL  
Title: Influence of Topically-Applied Insecticides on Blow Fly Oviposition, Larval Development, and Survival.
- Rachael Fithian – 2009-2010. (**Adviser**), Department of Entomology, UNL  
Title: Deciphering the Role of Peroxidases in the Defense Response of Buffalograss to *Blissus occiduus*.
- Christina Doehling – 2010-2011. (**Adviser**), Department of Entomology, UNL  
Title: Impact of Pastureland Grazing on Arthropod Biodiversity.

#### **Graduate Students**

##### *Current Advisees*

- Crystal Ramm, Ph.D., Department of Entomology (**Co-Adviser**)
- Mitch Stamm, Ph.D., Department of Entomology (**Co-Adviser**)

##### *Students Completing Degrees*

- § Steve Westerholt, M.S., Department of Horticulture (*May 1994*)  
Thesis: Determination of Selection Criteria for the Screening of Kentucky Bluegrass for Resistance to the Bluegrass Billbug.  
*Current Status:* Department of Statistics, UNL
- § Marion D. Ellis, Ph.D., Department of Entomology (*December 1994*)  
Dissertation: Toxic Effects of Monoterpenoids on the Honey Bee, *Apis mellifera* L., and its Tracheal Mite, *Acarapis woodi* (Rennie), Parasite.  
*Current Status:* Professor, Department of Entomology, UNL
- § Jennifer Johnson-Cicalese, Ph.D., Department of Horticulture (*May 1995*)  
Dissertation: Buffalograss Resistance to Mealybugs: Germplasm Evaluation, Mechanisms and Inheritance.  
*Current Status:* Innkeeper, Medford, NJ
- § Tiffany M. Heng-Moss, M.S., Department of Entomology (*August 1997*)  
Thesis: Beneficial Arthropods Associated with Buffalograss and the Influence of *Rhopus nigroclavatus* (Ashmead) on Buffalograss Mealybugs Populations
- § Anthony P. Weinhold, M.S., Department of Entomology (*December 2000*)  
Thesis: High Pressure Liquid Injection: A Novel Approach for Managing Turfgrass Insect Pests  
*Current Status:* Research Technician, USDA-ARS, Lincoln, NE
- § Tiffany Heng-Moss, Ph.D., Department of Entomology (*December 2000*)  
Dissertation: Buffalograss Resistance to the Chinch Bug *Blissus occiduus*: An Investigation of Tolerance and Antixenotic Mechanisms  
*Current Status:* Associate Professor, Department of Entomology, UNL
- § Judith M. Migliori, M.S. (Distance), Department of Entomology (*December 2001*)  
Non-thesis option  
*Current Status:* APHIS Inspector, Kona, Hawaii

- Thomas E. Eickhoff, M.S., Department of Entomology (*May 2002*)  
Thesis: Turfgrass, Crop and Weed Hosts of the Chinch Bug, *Blissus occiduus* Barber
- Jeffrey Carstens, M.S., Department of Entomology (*August 2003*)  
Thesis: Influence of Buffalograss Management Practices on the Chinch bug, *Blissus occiduus* and its Natural Enemies  
*Current Status:* USDA-ARS Horticulturalist, NCR Plant Introduction Station, Ames, IA
- Wyatt G. Anderson, M.S., Department of Entomology (*August 2004*)  
Thesis: Evaluation of Cool- and Warm-Season Grasses for Resistance to Multiple Chinch Bug Species  
*Current Status:* High School Science Teacher, Eau Claire, WI
- Timothy Huntington, M.S., Department of Entomology (*August 2005*)  
Thesis: Temperature-Dependent Development of Blow Flies of Forensic Importance and the Effects on the Estimation of the Postmortem Interval  
*Current Status:* Assistant Professor, Concordia University, Seward, NE
- Thomas E. Eickhoff, Ph.D., Department of Entomology (*May 2007*)  
Dissertation: An Investigation of Chinch Bug, *Blissus occiduus* Barber, Resistance in Warm-Season Grasses and Enzymatic Responses in Plants Challenged by Phloem Feeding Insects  
*Current Status:* Technical Development Representative, Monsanto Co.
- Chelsey Wasem, M.S., Department of Entomology (*December 2007*)  
Thesis: An Evaluation Of Auto-Disseminated *Metarhizium anisopliae* For Management of Japanese Beetles, *Popillia Japonica*, in Nebraska  
*Current Status:* Extension Agent – Horticulture, Kansas State University
- Luciana Toda, M.S. (Option III), Department of Entomology (*May 2008*)  
*Current Status:* IPM Intern, Pioneer Seed Company
- Sandra Schaeffer, M.S., Department of Entomology (*August 2009*)  
Thesis: Characterization of the Arthropod Community Associated with Switchgrass (*Panicum virgatum* L.) in Nebraska  
*Current Status:* Research Associate, Pioneer Hi-Bred South Dakota Research Center, Volga, SD
- Mitchell Stamm, M.S., Department of Entomology (*December 2009*)  
Thesis: Differential Response of the Western Chinch Bug, *Blissus occiduus* Barber to Neonicotinoid Insecticides  
*Current Status:* Ph.D. program, UNL Department of Entomology
- Khanobporn "Kim" Tangtrakulwanich, Ph.D., Department of Entomology (*August 2012*)  
Dissertation: Sensory Morphology and Chemical Ecology of the Stable Fly, *Stomoxys calcitrans*: Host-Seeking and Ovipositional Selection  
*Current Status:* Postdoctoral Research Associate at Montana State University

#### *Other Student Committees*

- Dan Currier, M.S., Department of Entomology, 1985 (*Member*)
- Mark Carter, M.S., Department of Entomology, 1986 (*Member*)
- Kim Erusha, M.S., Department of Horticulture, 1987 (*Member*)
- Jim Berry, Ph.D., Department of Entomology, 1988 (*Member, Reading Committee*)
- Mangala Hariharan, M.S., Department of Entomology, 1988 (*Member*)
- Jill Heinz, M.S., Department of Entomology, 1988 (*Member*)
- Mary Liz Jameson, M.S., Department of Entomology, 1988 (*Member*)
- Nancy Bosold, M.S. (Distance), Department of Entomology, 2001 (*Adviser*)
- Amanda Tischendorf, M.S. (Distance), Department of Entomology, 2001 (*Adviser*)
- Alemtaye Yossef, M.S., Department of Entomology, 2006 (*Member*)
- Sajeewani "Upeka" Samarakoon, M.S., Department of Entomology, 2006 (*Member*)
- Anh Hoang, M.S., Department of Entomology, 2008 (*Member*)
- Travis Prochaska, Ph.D. Department of Entomology, 2012 (*Member*)

#### **GRANTS RELATED TO TEACHING**

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<b>Title</b>	<b>Grantor</b>	<b>Amount</b>	<b>Investigator(s)</b>	<b>Date</b>
Student Travel Fellowship	FMC	\$250	<b>F.P. Baxendale</b> (W.G. Anderson)	2003
Identification of Greenbug-Resistant Sorghum	UCARE Funding	\$2,000	Jessica Daehnke <b>F.P. Baxendale</b> T.M. Heng-Moss	2003-2004
Enhancing Distance and Resident Education Delivery with Molting and Nerve Function Animation	IANR Innovation Grant	\$9,000	P. Higley T. Heng-Moss B. Siegfried L. Higley J. Foster <b>F. Baxendale</b>	2005-2006
Implementing Monitoring Protocols for <i>Pyemotes</i> Itch Mites	UCARE Funding	\$2,400	Ashley Effken T.M. Heng-Moss <b>F.P. Baxendale</b>	2006-2006
Seasonal Occurrence of Japanese Beetles in Nebraska.	UCARE Funding	\$2,000	Jeff Hays <b>F.P. Baxendale</b> T.M. Heng-Moss	2007-2008
Effects of Topically-Applied Insecticides of Blowfly Oviposition, Larval Development, and Survival	UCARE Funding	\$2,000	Josh Chess <b>F.P. Baxendale</b>	2008-2009
Deciphering the role of peroxidases in the defense response of buffalograss to <i>Blissus occiduus</i> .	UCARE Funding	\$2,000	Rachael Fithian <b>F.P. Baxendale</b>	2009-2010
Impact of Pastureland Grazing on Arthropod Biodiversity	UCARE Funding	\$2,000	Christina Doehling <b>F.P. Baxendale</b>	2010-2011

**TOTAL GRANTS: \$21,650** (as of 12/31/12)

**ADDITIONAL TEACHING ACCOMPLISHMENTS** \_\_\_\_\_

*Presentations to Student Groups*

- Visited with the undergraduate Insect Science Club about my research program, March 2008

*Student Mentoring*

- I hosted Sophie Rochefort, a Ph.D. student at Laval University in Quebec, Canada in my laboratory at the University of Nebraska from September through November 2004. This training included field and laboratory methods and techniques that helped facilitate her doctoral research on insects affecting turfgrasses.

*Recognition of Student Advisees*

- Jennifer Johnson-Cicalese
  - Widaman Trust Distinguished Graduate Student Award, 1992
  - Musser Foundation Doctoral Award for excellence in turfgrass research and leadership, 1994

- Marion D. Ellis
  - Beekeeper of the Year, Nebraska Beekeepers Association, 1996
  - Outstanding Service Award, Apiary Inspectors of America, 1996
- Tiffany Heng-Moss
  - Nebraska Turfgrass Foundation Scholarship for academic achievement, 1995
  - AgrEvo Scholarship for academic achievement, 1995
  - Ward A. and Helen W. Comb Scholarship for high academic achievement, 1996
  - Mabel Reichenbach Fellowship for high scholastic performance, 1997
  - Mary and Charles C. Cooper / Emma I. Sharpless Scholarship for recruitment of students with high scholastic performance and accomplishments, 1997
  - Lowe R. & Mavis Folsom Distinguished UNL Thesis Award, 1998  
(Highest University award recognizing Master's research)
  - NCB-ESA Graduate Scholarship Award, 1999
  - Hardin Distinguished Graduate Fellowship in Plant Stress Physiology, 1999
  - Sigma Xi Outstanding Graduate Student Award, UNL, 2000
  - Graduate Research Assistant Award, UNL, 2000  
(Highest University award recognizing graduate student research)
  - Watson Fellowship, GCSAA Foundation, 2000  
(One of the highest awards available to graduate student in the turfgrass industry)
  - John Henry Comstock Award for Outstanding Graduate Student Achievement, 2001
- Thomas Eickhoff
  - Milton E. Mohr Outstanding Graduate Teaching Assistant Fellowship, UNL, 2001
  - David and Anna Larrick Student Travel Award, ARD, 2004
  - Ken and Barbara Starks Plant Resistance to Insects Graduate Student Research Award, National Entomological Society of America, 2005
  - Student Activity Award, National Entomological Society of America, 2005
- Wyatt Anderson
  - Mary and Charles C. Cooper / Emma I. Sharpless Scholarship for recruitment of students with high scholastic performance and accomplishments, 2002, 2003
  - Milton E. Mohr, Fellowship in Agriculture, 2003
  - Second Place, Student Competition, National ESA Meeting, 2003
  - Second Place, Student Competition, Sigma Xi, 2003
  - First Place, Student Competition, North Central Branch ESA Meeting, 2004
  - Graduate Student Teaching Award of Merit, 2004
  - Ward A. and Helen W. Combs Scholarship, 2004
  - First Place, Student Competition, North Central Branch ESA Meeting, 2005
- Timothy Huntington
  - Milton E. Mohr Fellowship in Agriculture, 2003
  - John W. McDonald Fellowship, 2004
  - Holling Family Award Program for Teaching Excellence, Teaching Assistant, 2006
- Chelsey Wasem
  - Farmers National Company Fellowship, 2006
- Sandra Schaeffer
  - Farmers National Company Fellowship, 2007
  - Fred Clute Memorial Scholarship, 2008
- Luciana Toda
  - Farmers National Company Fellowship, 2007
- Mitchell Stamm
  - Second Place, Student Competition, National ESA Meeting, 2008
  - First Place, Student Competition, National ESA Meeting, 2009
- Crystal Ramm
  - Milton E. Mohr Fellowship in Agriculture, 2009
- Khanobporn "Kim" Tangtrakulwanich
  - P.E.O. International Peace Scholarship, 2009

- Shear-Miles Fellowship, 2010
- Larrick Memorial Travel Fund, 2010

## **PROFESSIONAL IMPROVEMENT**

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### *Workshops, Conferences and Seminars*

- Farmland Industries Scholarship Luncheons, East Campus, 1985-88
- Teaching Evaluation Seminars, Dr. Lawrence Aleamoni, East Campus, 1986

## **ORGANIZATIONAL CITIZENSHIP (SERVICE)**

My goal is to make significant contributes to the overall operation and success of UNL, IANR, the Department of Entomology, and professional associations by participating in activities and committees relating to the goals and mission of these organizations.

## **SIGNIFICANT PROFESSIONAL SERVICE ACTIVITIES**

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### ***Special Assignments***

#### National

- National Chair, Distinguished Achievement Award in Extension Committee, ESA, 1991-1992
- Review Team, Turfgrass Science Program, Clemson University, 1995
- Local Arrangements Chair, National Turfgrass Entomology Workshop, Omaha, NE, 1995
- Judge, Student Competition, ESA, Louisville, KY, 1996
- Judge, Student Competition, ESA, Las Vegas, NV, 1998
- Entomology Foundation Counselor, ESA, 2000-2009
- Judge, Student Competition, ESA, Montreal, Canada, 2000
- Program Chair, National Turfgrass Entomology Workshop, Madison, WI, 2001
- Poster Judge, Student Competition, ESA, Fort Lauderdale, FL, 2005
- Poster Judge, Student Competition, ESA, Knoxville, TN, 2012

#### Regional

- President-Elect, President, Past President, NCB-ESA, 2010-2013
- Chair, Membership Committee, NCB-ESA, 1990-1993
- Local Arrangements Co-chair, NCB-ESA Annual Meeting, Omaha, NE, 1996
- Invited member, Southern Region IPM Grant Review Panel, 1996
- Program Co-Chair, NCB-ESA Annual Meeting, East Lansing, MI, 2001-2002
- Poster Judge, Central States Entomol. Soc. / Kansas Entomol. Soc. Annual Meeting, Lincoln, NE, 2004
- Paper Judge, Student Competition, NCB-ESA, Columbus, OH, 2008

#### State

- Judge, Bee Culture Division, Nebraska State Fair, 1987-Present

#### University

- Chair, Extension Award Selection Committee, Gamma Sigma Delta, 1999

#### Nebraska Extension

- Superintendent/Assistant, 4-H Entomology, Nebraska State Fair, 1984-88, 2000-Present
- Coordinator/Co-coordinator for the NCEA Specialists Section Ice Cream Social, 1985-88, 1995-96
- Cooperative Extension Dean and Director's Advisory Committee, 1985, 2002
- Specialist Section Representative to NCEA Board of Directors, 1987-89 and 1996-98
- Nebraska Ext. Promotion and Tenure Committee, 1999-01 (Chair 2000), 2008-12 (Chair 2009-12)
- President-Elect/President/Past President Specialist Section, NCEA, 2000-02

### Department

- Interim Head, Department of Entomology, University of Nebraska, April 2005-August 2006
- Supervisor for Extension Technologist Jim Kalisch, 2007-Present
- Faculty Mentor for Assistant Professor Roberto Cortinas, 2009-Present
- Faculty Mentor for Assistant Professor Ashley Hall, 2010

### **Professional Meeting Sessions Organized/Moderated**

- Coordinated and Moderated the Computer, Video and Poster sessions, NCB-ESA Annual Meetings, Des Moines, IA, 1987; Denver, CO, 1988
- Coordinated and Co-moderated, Horticultural Entomology Informal Conference, NCB-ESA Annual Meeting, Kansas City, KS, 1992
- Co-moderated Paper Session IV: Section F, NCB-ESA Annual Meeting, Springfield, IL, 1994
- Co-developed and Co-moderated Section E Symposium: *Implementing IPM in Turfgrass Management*, ESA Annual Meeting, Dallas, TX, 1994
- Moderated sessions at UNL's Urban Pest Management Conference, 2000-06, 2008-10
- Co-moderated Section F Submitted Papers, ESA Annual Meeting, Fort Lauderdale, FL, 2002
- Co-developed and Co-moderated Member Symposium: *Turfgrass & Ornamental Pest Management: Celebrating Colleagues, Science, and New Ideas*, ESA Annual Meeting, Indianapolis, IN, 2009
- Session Moderator NCB and National ESA meetings: 1988, 1992, 1994, 2002, 2009, 2011

### **Teaching Contributions**

- Served as Faculty Advisor for the Lawrence Bruner Entomology Club 1984-86, 2002-03
- Presented a guest lecture for J.D. Edwards Honor Students Program on the *Design and Establishment of Turfgrass Insect Field and Greenhouse Studies*, 2002
- Provided turfgrass insect questions and specimens for the *Collegiate Turf Bowl Competition* at the annual meeting of the Golf Course Superintendents Association of America, 1997-Present
- Served as a Faculty Co-leader for the Insect Science Study Abroad Program in Costa Rica, 2009, 2011
- Presented 100+ guest lectures for **15** different University of Nebraska courses.

Course No.	Course Title	Years Taught
Agronomy 405	Advanced Crop Production	4
Entomology 109	Introduction to Beekeeping	2
Entomology 115/116	Insect Biology and Identification	13
Entomology 308	Field Crops Insects	4
Entomology 203	Horticultural Insects	1
Entomology 308	Insect Pest Management	1
Entomology 400/800	Biology and Classification of Insects (Laboratory)	3
Entomology 402/802	Aquatic Insects (Laboratory)	6
Entomology 406/806	Insect Ecology	2
Entomology 409/809	Insect Control by Host Plant Resistance	2



Horticulture 327/227	Introduction to Turf Management	9
Horticulture 342	Undergraduate Seminar	1
Horticulture 350	Basic Fruit Production	6
Horticulture 351	Vegetable Production	8
Horticulture 425/825	Turfgrass Science and Culture	6
Horticulture 470	Landscape Management	8

*Publication, ARD Project and Grant Proposal Reviews*

- Spent **2** to **4** hours each reviewing **123** research-related publications including manuscripts for American Entomologist, Crop Science, HortScience, Phytoparasitica (Israel Journal of Plant Protection Sciences), and the journals of Apicultural Research, Economic Entomology, Environmental Entomology, Entomological Science, Kansas Entomological Society, and American Mosquito Control Association.
- Reviewed chapters for the following books: *Handbook of Integrated Pest Management for Turf and Ornamentals*, A. Leslie, Ed. (1988); *Destructive Turfgrass Insects*, D.A. Potter (1997); *2<sup>nd</sup> Edition Turfgrass Insects of the U.S. and Canada*, M. Villani, P. Vittum and H. Tashiro (1998); *Turfgrass Monograph*, 3<sup>rd</sup> ed. American Society of Agronomy, Stier, J., S. Bonos, and B. Horgan, (eds). (2010).
- Served as a reviewer for **23** University of Nebraska, Agricultural Research Division project reviews, and reviewed **3** Texas Agricultural Research Station and **1** University of Florida / IFAS project proposals. Outside reviewer for Dr. Jeff Tomberlin's Texas A&M project proposal (2011).
- Served as a reviewer for a Kansas State University Special Group Incentive Research Awards Program proposal (1998).
- Spent from 2 to 4 hours each on **91** Extension-related publication reviews.
- Co-Editor, Turfgrass Research Report, UNL Department of Agronomy and Horticulture (2003).

**COMMITTEE ASSIGNMENTS**

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*National*

- American Registry for Professional Entomologists
  - Student Representative to the Finance Committee, 1982-83
- Entomological Society of America
  - Distinguished Achievement Award in Extension, 1990-92; **Chair** 1991-92
  - Entomology Foundation Counselor, 2000-09
  - Insect Pest Handbook Editorial Board, 1996-00; **Chair** 2000
  - Professional Maintenance and Certification Committee, 1993-94
  - Program Evaluation Committee, 1989-91
  - Section Fa Nominating Committee, 2001
  - Stanley Beck Fellowship Selection Committee, 1994-97, 2003

*Regional*

- Board Certified Entomologists of Mid-America
  - Nominating Committee, 1993-94
  - **Director-at-Large**, 1994
- Farmland Industries Advisory Board, 1986-89
- Great Plains Crops and Soils Committee on Russian Wheat Aphid, 1987-90
- Great Plains Tree Pest Working Group, 1993-94
- Mid-Plains Poison Control Center, **Consultant**, 1985-Present
- NCR-10: Turfgrass Research Committee, 1989-Present
- NCR-98: Insects of Landscape Trees and Shrubs, 1991-Present

- North Central Branch of the Entomological Society of America
  - President-Elect, **President**, Past President 2010-13
  - Annual Meeting Program, **Co-Chair**, 2001-2002
  - Executive Committee, **Member-at Large**, 2001-2003
  - Local Arrangements Committee, **Co-Chair**, 1995-96
  - Membership Committee, 1988-93; **Chair**, 1990-93
  - Nominating Committee, **Chair**, 1999

#### *State*

- Cooperative National Plant Pest Survey and Detection Committee, 1984-95
- Gypsy Moth Advisory Committee, Nebraska Department of Agriculture and USDA/APHIS, 1991-95
- Nebraska Honey Producer Review Board, 1990-95
- Nebraska Emerald Ash Borer (EAB) Working Group, 2008-Present
- Nebraska Plant Pest Advisory Committee, 2000-Present
- Nebraska Turfgrass Association
  - Conference/Field Day Planning Committee, 1990-Present

#### *University*

- Academic Conferences Advisory Committee, 2006-09
- UNL Curriculum Committee, 1987
- UNL Faculty Senate 1986-89

#### *Institute of Agriculture and Natural Resources*

- Advisory Committee (ad hoc) to the CES Dean and Director, 1985
- Ag Climate Advisory Committee, 1985-88
- Ag Expo Program Committee, 1987-89
- Backyard Farmer Program Committee, 1985-Present
- Computational Services and Facilities Committee, 1988
- Committee on Policy for Appointment and Promotion 2007-09
- Conservation Tillage (Ad Hoc) Committee, 1984-89
- Cooperative Extension Dean's Advisory Committee, 2002
- DPH Diagnostic Planning Committee, 2009
- Drought Action and Response Team, 1988-92
- Emerald Ash Borer Extension Response Task Force, **Co-Chair**, 2008-Present
- Extension Vegetable and Fruit Task Force, 1985-89
- Faculty Senate, 1986-89
- Field Crops IPM Steering Subcommittee, 1985-88
- Forensic Science Advisory Committee, 2008-2012
- External Forensic Science Advisory Group, 2010
- Gamma Sigma Delta Extension Award Selection Committee, 1997-99; **Chair**, 1999
- Insect, Plant Disease and Weed Science Newsletter Committee, 1984-92
- Extension Promotion & Tenure Committee, 1999-02 (**Chair** 2000), 2008-12 (**Chair** 2009-12)
- Open House-Arrangements Sub-Committee, 1987
- Pesticide Advisory Committee, 1985-88
- Pesticide Applicator Training Steering Committee, 1984-92
- Pesticide Use Survey Advisory Committee, 1988-92
- Plant & Pest Diagnostic Clinic Supervisory Committee, 2001-Present
- Policy on Appointment and Promotion Committee, 2007-2010
- Search Committees
  - Extension Specialist-Pesticide Certification Training, 1986
  - Extension Entomology Specialist, 1987
  - Extension Entomology Specialist-IPM, 1988
  - Extension Home/Environmental Horticulturist, 1989
  - Entomology Department Head, 1989, 1995

- Entomology Research Analyst, 1997
- Veterinary/Medical Parasitologist, 2006-2007
- Small Grains Variety Release Committee, 1986-1989
- Soybean Production Systems Model Task Force, 1985-1989
- Strategic Plan Interdisciplinary Team Action Committee, 1992
- Team Award Selection Committee, 1993
- TV Program Content Committee, 1984-1992
- Vegetable Crops, Turf, Ornamentals and Woody Plants Variety Release Committee, 1990-Present
- Video Conference Working Group, 1989
- Water Resource Development Task Force, 1987-1991

*Nebraska Cooperative Extension Association*

- Distance Education Technology Committee, 1996
- Environmental Issues Committee, 1995-1998
- Faculty Senate Relations Committee, 1986-89
- Ice Cream Social Committee, **Co-Chair** 1985-88, 1995-1996
- L.A.R.C. Committee, 1984-1987
- Nominating Committee, 2002
- Professional Improvement Committee, 1991-1993
- Sergeant-at-Arms, 1994-1995
- Specialist Section Award Committee, 1988, 1995-96, **Chair**, 2000
- Specialist Section, President-Elect, **President**, Past President 2000-2002

*Department*

- Annual Planning Meeting Committee, 1986-90; **Chair**, 1986
- Awards Committee, 1996-98; **Chair**, 1997
- Computer Resources Committee, 1994-1997
- CSRS Steering Committee, 1986, 1997
- Courtesy Committee, 1994-1995
- Curriculum Committee, 1990-1997; **Chair**, 1997
- Design Team, Department Review, 2010
- Extension Entomology Project, **Coordinator**, 1985-1986, 1987-1993
- Facilities Committee, **Chair**, 1988-1993, 2008-Present
- Graduate Committee, 1998-2002
- Greenhouse Committee, 1988, 2000-Present
- Interim Head, April 2005-August 2006
- IPM Working Group, 1988
- Mead Users Advisory Committee, 1991-1994
- Newsletter Committee, 1987-1992
- Promotion and Tenure Committee, 1996-1999 (**Chair**, 1998-1999), 2007-10 (**Chair**, 2009-2010)
- Recording Secretary, 1985-1988
- Student Handbook Committee, 1986
- Swenk Memorial Fund Committee, 1984-1986
- Warehouse Storage Facilities Committee, 1987-1994