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### Education

**Ph.D. Entomology**, August 1988 - North Carolina State University, Raleigh, NC.

Major Advisor: Dr. John Van Duyn

Thesis title: "*Detection of Adult Activity and Prediction of Larval Damage of Second Generation European Corn Borer, Ostrinia nubilalis, in Field Corn, Zea mays, in Eastern North Carolina.*"

**M.S. Entomology**, May 1984 - North Carolina State University, Raleigh, NC.

Major Advisor: Dr. George G. Kennedy

Thesis Title: "*Resistance of Lycopersicon hirsutum f. glabratum (C.H. Mull) to the Colorado Potato Beetle, Leptinotarsa decemlineata (Say).*"

**B.S. Wildlife Biology**, cum laude, May 1980 - North Carolina State University, Raleigh, NC.

### Work Experience

**Associate Professor of Entomology**. North Carolina State University. July, 2002- present.

**Assistant Professor of Entomology**. North Carolina State University, June 1996- June 2002.

**Responsibilities At NCSU:** I teach a graduate course in Integrated Pest Management (ENT 550), the Agricultural Entomology Practicum (ENT 641/841) the undergraduate Insects and People (ENT 201), 1/3 of a graduate course in Preharvest Food Safety (FSA 520), and have served on 21 graduate student advisory committees. I also co-instruct a distance education section of ENT 201 with Dr. Ron Kuhr. I am responsible for applied and basic research on the biology and management of arthropod pests of tobacco and other crops. My program has two primary foci: 1. The biology and management of arthropod pests and beneficials in tobacco; and 2. The interactions between soil, water, and wildlife conservation practices and pest management in row crop agriculture. Current and recent projects include investigations into the interactions between tobacco budworm resistant tobacco varieties and a parasitoid of the tobacco budworm; studies of the economics and efficacy of new, safer insecticides in tobacco culture; an evaluation of the response of populations of the tobacco budworm from across the South to insecticides; several studies into the biology and management of the Myzus aphids attacking tobacco; an evaluation of the impact of no-till culture on tobacco pest management; and an assessment of the influence of feral vegetation field borders on pest management in cotton and soybean fields in the Neuse River basin. I am initiating an investigation of the biology and ecology of the tobacco budworm in the eastern North Carolina agro-ecosystem. I am a member of the Fisheries and Wildlife Program faculty.

**State Extension/Research Entomologist**. (Rank of Assistant Professor) University of Missouri-Columbia, September 1992 to June 1996. I was responsible for applied research in management of insect pests of cotton, corn, rice, and soybeans. I was also responsible for extension support and programming on pest management in the same crops. Research projects included investigations into the wintering biology, distribution, and management of the boll weevil, management and biology of the southwestern corn borer, impact of warm-season native grass strips on cotton insect population dynamics, and the management and seasonal dynamics of the rice water weevil in Missouri. Extension programs included an intensive IPM education effort involving grower meetings, the production of two periodical publications (circulation ca. 1200), a telephone hotline service, and the preparation of miscellaneous extension publications. I supervised 3-11 employees. During the fall of 1994, I taught an undergraduate level Integrated Pest Management course (enrollment 23) at Southeast Missouri State University in Cape Girardeau, MO.

**Extension IPM/Pesticide Coordinator**. (Rank of Assistant Professor). University of Nevada, Reno, May 1989 to August 1992. I was responsible for Integrated Pest Management (IPM), Pesticide Impact Assessment (NAPIAP), and Pesticide Applicator Training (PAT) programs for the state of Nevada. My IPM extension programs were focused on three areas: urban/suburban ornamental and horticultural pest management, alfalfa pest management,

and livestock pest management. NAPIAP responsibilities included pesticide use and impact data collection, liaison to PIAP researchers, and liaison to state extension personnel on pesticide issues including pesticide re-registration impacts. PAT responsibilities consisted primarily of conducting annual training sessions for users of restricted-use pesticides. In addition I served as state liaison to the IR-4 pesticide registration program and state extension food safety contact (for pesticide issues). My research interests included IPM tactics for insect pests in alfalfa hay and seed crops and in urban/landscape systems. In addition to extension publications and materials listed below, I produced a monthly, 4-6 page newsletter on IPM and pesticide issues for extension personnel and pest management/pesticide professionals (circulation ca. 300). I supervised 1-3 employees.

**Post-doctoral Research Associate.** NCSU, May 1988 to April 1989. I conducted research on the efficacy of a fungal mite pathogen for control of two-spotted spider mite in field corn and investigated the impact of pollen on predation by ladybird beetles through laboratory experiments. I also investigated the spatial occurrence of male European corn borer in field corn, cotton and potatoes through pheromone trapping experiments. I was responsible for design and execution of experiments and analysis of data.

**Doctoral Graduate Teaching Assistant.** NCSU, August 1987 to May 1988. I was responsible for teaching 5 sections of a general biology laboratory (3 in the fall semester and 2 in the spring) to undergraduates. My responsibilities included preparation of lectures and lab materials, preparation and administration of examinations and lab problems, and student advising.

**Natural History Lecturer.** N.C. Museum of Natural Science, 1986-1989 (part-time). I delivered ca. 30 programs on a variety of natural history topics to a range of audiences state-wide as part of the museum's "Outreach" extension program. Groups contacted included scout troops, garden clubs, school classes, church youth groups, and conservation organizations, among others.

**Doctoral Graduate Research Assistant.** NCSU, June 1984 to August 1987. I studied the temporal and spatial distribution of adult and immature stages of *O. nubilalis* through intensive field investigations. My work included investigations into pheromone race differences in various populations of corn borer through pheromone trapping techniques. I coordinated the data collection activities of 3-5 assistants in an area-wide research effort and gained extensive experience in statistical data analysis, experimental design, and word processing. I developed scouting and management programs. The project required substantial contact and cooperation with private landowners and growers. Additionally I conducted research on the development of new thresholds for bollworms in cotton in the absence of boll weevil during the summer of 1987.

**Masters Graduate Research Assistant.** NCSU, September 1981 to June 1984. I investigated trichome-based resistance to Colorado potato beetle in a feral tomato species through field and laboratory experiments. My work included development of bioassay techniques for assessing levels of resistance. I gained experience in the use of gas-chromatography techniques. I supervised one field assistant.

**Illustrator.** North Carolina Agricultural Extension Service, November 1982 through April 1984 (part-time). I prepared 59 pen-and-ink illustrations for *North Carolina Animal Damage Control Manual*.

**Laboratory Technician.** National Institutes of Environmental Health Sciences, October 1980 through September 1981. I was responsible for the development of bioassay protocols for testing suspected toxicants utilizing fixed behavior patterns in Japanese quail. I constructed experimental apparatus and data-recording instruments. I collected data and submitted written protocols.

**Field Research Assistant.** Dept. of Entomology, NCSU, August through October 1980. I assisted in the collection of data from field experiments on several insect pests of cotton. Acquired experience in application of pesticides to small plot field tests.

**Wildlife Field Research Intern.** Dept. of Zoology, NCSU, May through August 1980. I collected data for projects on the American alligator and the red-cockaded woodpecker and gained experience in the capture, handling and marking of both species. The work involved extensive use of forestry mensuration equipment, boats and radio-telemetry equipment.

**Wildlife Research Assistant.** (volunteer, 5-15 hours per week). Dept. of Zoology, NCSU, September 1978 through April 1980. I assisted with data collection on several projects concerned with the ecology of the American woodcock. This work included the collection of specimens, preparation of blood and tissue samples, capture and banding of birds, and a radio-telemetry study of bird movements. I prepared study skins of birds and mammals and constructed educational displays. Additionally, I assisted with a radio-telemetry and population dynamics study of bobwhite quail from 1984-1986.

**Seasonal Park Naturalist.** North Carolina Dept. of Natural Resources and Community Development, May through September 1979. I was responsible for interpretive programs at Morrow Mountain State Park, Albemarle, NC. I

conducted slide presentations and natural history lectures, constructed exhibits, led nature walks, took care of live exhibits, and maintained the park museum.

### Peer-reviewed Publications

- Kennedy, G. G., and C. E. Sorenson. 1985. The role of glandular trichomes in the resistance of *Lycopersicon hirsutum* f. *glabratum* to Colorado potato beetle. *J. Econ. Entomol.* 78: 547-551.
- Sorenson, C.E., R.L. Fery, and G.G. Kennedy. 1989. Relationship between Colorado Potato beetle (Coleoptera: Chrysomelidae) and Tobacco hornworm (Lepidoptera: Sphingidae) resistance in *Lycopersicon hirsutum* f. *glabratum*. *J. Econ. Entomol.* 82: 1743-1748.
- Derrick, M.E., J.W. Van Duyn, C.E. Sorenson, & G.G. Kennedy. 1992. Effect of pheromone trap placement on capture of male European corn borer (Lepidoptera: Pyralidae) in three North Carolina crops. *Environ. Entomol.* 21(2): 240-246.
- Landis, D.A., C.E. Sorenson, & E.D. Cashett. 1992. Biology of *Clydonopteron tecomae* (Lepidoptera: Pyralidae) in North Carolina with description of the egg stage. *Annals Ent. Soc. Am.* 85(5): 596-604.
- Sorenson, C.E., G.G. Kennedy, J.W. Van Duyn, J.R. Bradley, Jr., & J.F. Walgenbach. 1992. Geographical variation in pheromone response of the European corn borer, *Ostrinia nubilalis* in North Carolina. *Entomol. Exp Appl.* 67: 177-185.
- Sorenson, C.E., G.G. Kennedy, J.W. Van Duyn, and J.R. Bradley, Jr. 1993. Distribution of second generation European corn borer, *Ostrinia nubilalis*, egg masses in field corn and relationship to subsequent tunneling damage. *Entomol. Exp Appl.* 68: 15-23.
- Sorenson, C. E., J. W. Van Duyn, G. G. Kennedy, J. R. Bradley, Jr., C. E. Eckel, and G. C. J. Fernandez. 1995. Evaluation of a Sequential Egg Mass Sampling System for Predicting Second Generation European Corn Borer (Lepidoptera: Pyralidae), Damage in Field Corn in North Carolina. *J. Econ. Entomol.* 88:1316-1323.
- Benedict, J., P. Baker, C. Brennand, H. Deer, M. Dodds, W. Kvasnicka, C. Leontos, S. Omaye, P. Parks, & C. Sorenson. 1996. News media as a target audience for Cooperative Extension. *J. of Extension.*
- Chippendale, G. M., & C. E. Sorenson. 1997. Biology and management of the southwestern corn borer. *In* E. B. Radcliffe and W. D. Hutchison [eds.], *Radcliffe's IPM World Textbook*, URL: <http://www.ent.agri.umn.edu/academics/classes/ipm/ipmsite.htm>. University of Minnesota, St. Paul, MN.
- Sorenson, C. E., A. Schreiber, H. G. Townsend, S. F. Abd-Elghafar, M. L. Fairchild, & C. O. Knowles. 1998. Pyrethroid Resistance Monitoring of Bollworm (Lepidoptera: Noctuidae) Moths in Missouri, 1988 to 1994. *J. Entomol. Sci.* 33: 300-312.
- Sorenson, C. E., P. S. Southern, and W. D. Smith. 1999. Phytotoxicity Resulting From the Use of Imidacloprid and Other Pesticides in the Tobacco Greenhouse. *Tobacco Science* 42: 7-14.
- Davis, F. M., W. P. Williams, and C. E. Sorenson. 1999. Evaluation of six maize hybrids for their susceptibility to feeding by three *Diatraea* sp. (Lepidoptera: Crambidae) using laboratory bioassay procedures. *J. Agric. Entomol.* 16: 107-112.
- Clements, K. M., B. M. Wiegmann, C. E. Sorenson, C. F. Smith, P. A. Neese, and R. M. Roe. 1999. Genetic variation in the *Myzus persicae* (Homoptera: Aphididae) complex: evidence for a single species. *Annals of the ESA.* 93: 31-46.
- Clements, K. M., B. M. Wiegmann, C. F. Smith, C. E. Sorenson, and R. M. Roe. 1999. *Myzus nicotianae* Blackman, a new junior synonym of *Myzus persicae* (Sulzer) (Homoptera: Aphididae). *Tobacco Sci.* 42: 65-67.
- Clements, K. M., C. E. Sorenson, B. M. Wiegmann, and R. M. Roe. 1999/2000. Insecticide resistance in the *Myzus persicae* complex (Homoptera: Aphididae) with emphasis on tobacco pest management. *Rev. in Tox.* 3: 1-23.
- Clements, K. M., C. E. Sorenson, B. M. Wiegmann, P. A. Neese, and R. M. Roe. 2000. Genetic, biochemical, and behavioral uniformity among populations of *Myzus nicotianae* Blackman and *Myzus persicae* (Sulzer) (Homoptera: Aphididae). *Entomologia Exp. et Applic.* 95:269-281.
- Sorenson, C. E., R. A. Ihrig, J. R. Bradley, Jr., J. W. Van Duyn, and D. A. Herbert. 2000. Comparison of two computer techniques and a visual technique for the estimation of wheat leaf consumption by cereal leaf beetle (Coleoptera: Chrysomelidae). *J. Entomol. Sci.* 35:391-401.
- Woods, H. A., C. E. Sorenson, A. Stephenson, and J. F. Harrison. 2001. A simple allozyme method for distinguishing all life stages of *Manduca sexta* and *Manduca quinquemaculata* (Lepidoptera: Sphingidae). *Entomologia Exp. et Applic.* 98: 109-113.

- Bailey, W. D., C. Brownie, J. S. Bacheler, F. Gould, G. G. Kennedy, C. E. Sorenson, and R. Michael Roe. 2001. Feeding Disruption Bioassay for Species Diagnosis and *Bacillus thuringiensis* Resistance Monitoring of *Heliothis virescens* and *Helicoverpa zea* Field Strains Collected from the Southern US (Lepidoptera: Noctuidae). *J. Econ. Entomol.* 94: 76-85.
- Groves, R. L., C. E. Sorenson, J. F. Walgenbach, and G. G. Kennedy. 2001. Effects of imidacloprid on transmission of tomato spotted wilt tospovirus to pepper, tomato and tobacco by *Frankliniella fusca* Hinds (Thysanoptera: Thripidae). *Crop Protection* 20: 439-445.
- Barker, K. R. and C. E. Sorenson. 2003. Cropping systems and Integrated Pest Management. *J. of Crop Prod.* 8: 271-306.
- Daley, S. S., D. T. Cobb, P. T. Bromley, and C. E. Sorenson. 2004. Landowner attitudes regarding wildlife management on private land in North Carolina. *Wildl. Soc. Bull.* 32(1):209-219.
- Jackson, D. M., K. A. Sorensen, C. E. Sorenson, and R. N. Story. 2005. Monitoring cucumber beetles in sweetpotato and cucurbits with kairomone baited traps. *J. Econ. Entomol.* 98(1) 159-170.
- Thompson, S. R., and C. E. Sorenson. 2005. Hands-on Bugs: Bringing Insects Up Close and Personal with Non-Science Majors. *American Entomol.* 51 (2): 74-77.
- Bertone, M., J. Green, S. Washburn, M. Poore, C. E. Sorenson, and D. W. Watson. 2005. Seasonal activity and species composition of dung beetles (Coleoptera: Scarabaeidae and Geotrupidae) inhabiting cattle pastures in North Carolina (USA). *Annals Ent. Soc. Am.* 98: 309-321.
- Sorenson, C. E., George G. Kennedy, Coby Schal, and James F. Walgenbach. 2005. Geographical Variation in Pheromone Response of the European Corn Borer, *Ostrinia nubilalis* (Lepidoptera: Crambidae), in North Carolina: A Twenty-year Perspective. *Environ. Entomol.* 34: 1057-1062.
- Jackson, R. E., J. S. Mahaffey, J. R. Bradley, Jr., J. W. Van Duyn, and C. E. Sorenson. 2005. The impact of *Ostrinia nubilalis* (Hübner) larval instar on survival and damage potential on cotton bolls that produce one or two *Bacillus thuringiensis* toxins. *J. Cotton Sci.* 9:199-203.
- Silverman, J., C. E. Sorenson, and M. G. Waldvogel. 2006. Trap mulching Argentine Ants. *J. Econ. Entomol.* 99: 1757-1760.
- Moorman, C. E., L. T. Bowen, J. C. Kilgo, C. E. Sorenson, J. L. Hanula, S. Horn, and M. D. Ulyshen. 2007. Seasonal diets of insectivorous birds using canopy gaps in bottomland forest. *J. Field Ornithology* 78: 1-10.
- Abney, M.R., C.E. Sorenson, and J.R. Bradley Jr. 2007. Alternate Crop Hosts as Resistance Management Refuges for Tobacco Budworm, *Heliothis virescens*, (Lepidoptera: Noctuidae) in North Carolina. *J. Cotton Sci.* 11(1): 35-39.
- Abney, M.R., C.E. Sorenson, and P.S. Southern. 2007. Efficacy of Pyrethroid Insecticides for Control of the Tobacco Budworm, (*Heliothis virescens*), (Lepidoptera: Noctuidae) in North Carolina Flue-Cured Tobacco and Implications for Insecticide Resistance Management. *J. Entom. Sci.* in press.
- Juba, T. R., J. R. Bradley, Jr., A. Notz, P. S. Southern, and C. E. Sorenson. 2007. Effect of tobacco budworm (Lepidoptera: Noctuidae) infestation level on budworm-resistant and-susceptible varieties of flue-cured tobacco in North Carolina. *J. Econ. Entomol.* 100 (3): 801-807.
- Outward, R., C. E. Sorenson, and J. R. Bradley, Jr. 2007. Effects of vegetated field borders on arthropods in cotton fields in eastern North Carolina. *J. Insect Science* (in press).
- Abney, M. R., C. E. Sorenson, F. Gould, and J. R. Bradley, Jr. 2007. Limitations of stable carbon isotope analysis for determining natal host origins of tobacco budworm, *Heliothis virescens*. *Entomol. Exp. Et Applic.* (in press)
- Sorenson, C. E., W. D. Bailey, H. Young, R. M. Roe, and C. E. Ratz. 200-. Response of five *Heliothis virescens* (F.) (Lepidoptera: Noctuidae) populations from the southeastern United States to acephate Spinosad, and *Bacillus thuringiensis* CryIAc Toxin. *J. Econ. Entomol.* (under revision).

### Conference Proceedings Articles

- Kennedy, G. G., C. E. Sorenson, and R. L. Fery. 1985. Mechanisms of resistance to Colorado potato beetle in tomato. pp. 106-116 in D. N. Ferro and R. H. Voss (eds.), *Proc. XVII Inter. Cong. Entomol. Symp. on Colorado Potato Beetle*. Univ. of Mass., Amherst.
- Sorenson, C. E., C. O. Knowles, S. F. Abd-Elgahafar, G. S. Smith, H. F. Mammen, and H. G. Townsend. 1994. Abundance and insecticide susceptibility of bollworm and tobacco budworm in Missouri during 1993. pp 1179-1182. *In Proceedings, 1994 Beltwide Cotton Conferences, San Diego*. National Cotton Council, Memphis, TN.
- Sorenson, C. E., C. O. Knowles, S.F. Abd-Elgahafar, G. S. Smith, H. F. Mammen, and H. G. Townsend. 1995. Abundance and insecticide susceptibility of bollworm and tobacco budworm in Missouri during 1994. pp 959-962. *In Proceedings, 1995 Beltwide Cotton Conferences, San Antonio*. National Cotton Council, Memphis, TN.

- Sorenson, C.E. and J. House. 1995. Winter habitat microclimate and winter cold tolerance of boll weevils in Missouri: a preliminary report. pp 1025-1029. *In* Proceedings, 1995 Beltwide Cotton Conferences, San Antonio. National Cotton Council, Memphis, TN.
- Sorenson, C. E., & M. George. 1996 Survival of Missouri boll weevils exposed to freezing temperatures with and without ice nucleators. pp 969-972. *In* Proceedings, 1996 Beltwide Cotton Conferences, Nashville, TN. National Cotton Council, Memphis, TN
- Sorenson, C. E., R. D. Parker, & M. B. Layton. 1996. Relative cold tolerance of boll weevils from Missouri, Mississippi, and coastal Texas. pp 715-717. *In* Proceedings, 1996 Beltwide Cotton Conferences, Nashville, TN. National Cotton Council, Memphis, TN
- Vitanza, S., C. E. Sorenson, & W. Bailey. 1996. Impact of warm-season perennial grass strips on cotton insects. pp 174-176. *In* Proceedings, 1996 Beltwide Cotton Conferences, Nashville, TN. National Cotton Council, Memphis, TN
- Steinkraus, D. C., G. O. Boys, R. G. Hollingsworth, J. S. Bacheler, J. A. Durant, B. L. Freeman, M. J. Gaylor, F. A. Harris, A. Knutson, G. L. Lentz, B. R. Leonard, R. Luttrell, D. Parker, J. D. Powell, J. R. Ruberson, & C. E. Sorenson. 1996. Multi-state sampling for *Neozygites fresenii* in cotton. *In* Proceedings, 1996 Beltwide Cotton Conferences, Nashville, TN. National Cotton Council, Memphis, TN
- Grundler, J., & C. E. Sorenson. 1997. An intensive boll weevil trapping effort in southern Missouri. pp 971-973. *In* Proceedings, 1997 Beltwide Cotton Conferences, New Orleans, LA. National Cotton Council, Memphis, TN
- Sorenson, C. E., and R. J. Outward. 1999. Effects of managed feral vegetation field borders on insects in cotton and soybean fields in North Carolina: An interim report. Pp 1206-1210 *In* Proceedings, 1999 Beltwide Cotton Conferences, Orlando FL. National Cotton Council, Memphis, TN.
- Roe, R. M., W. D. Bailey, G. Zhao, H. P. Young, L. M. Carter, F. Gould, C. E. Sorenson, G. G. Kennedy, and J. S. Bacheler. 1999. Assay kit for species and insecticide resistance diagnosis for tobacco budworm and bollworm in cotton. Pp 926-931 *In* Proceedings, 1999 Beltwide Cotton Conferences, Orlando, FL. National Cotton Council, Memphis, TN.
- Roe, R. M., W. D. Bailey, F. Gould, C. E. Sorenson, G. G. Kennedy, J. S. Bacheler, R. L. Rose, E. Hodgson, and C. L. Sutula. 2000. Detection of resistant insects and IPM. Pp. 67-84 *in* G.G Kennedy and T. B. Sutton, (eds.), *Emerging Technologies for Integrated Pest Management: Concepts, Research, and Implementation*. APS Press, St. Paul, MN.
- Outward, R. J., C. E. Sorenson, and P. T. Bromley. 2000. Effects of fallow vegetation field borders on arthropods in cotton and soybean fields in eastern North Carolina. Pp 1270-1275 *In* Proceedings, 2000 Beltwide Cotton Conferences, San Antonio, TX. National Cotton Council, Memphis, TN.
- Roe, R. M., S Long, S. Cawsey, J. S. Bacheler, and C. E. Sorenson. 2002. New commercial feeding disruption bioassay kit for species and insecticide resistance diagnosis in the tobacco budworm and cotton bollworm. *In* Proceedings, 2002 Beltwide Cotton Conferences, Atlanta, GA. National Cotton Council, Memphis, TN.
- Abney, M.R., C.E. Sorenson, and J.R. Bradley Jr. 2003. Population dynamics of *Heliothis virescens* in a multiple crop system. *Proc. Beltwide Cotton Conf.*
- Abney, M. R., C. E. Sorenson, and J.R. Bradley, Jr. 2004. Alternate Crop Hosts as Resistance Management Refuges for Tobacco Budworm. *In* Proc. 2004 Beltwide Cotton Conf., pp 1413-1416.
- Abney, M. R., C. E. Sorenson, F. Gould, and J. R. Bradley, Jr. 2005. Assessing the Utility of Stable Carbon Isotopes for Determining Natal Host Origins of Tobacco Budworm, *Heliothis virescens*, in a Host Species Rich Agroecosystem. *In* Proceedings, 2005 Beltwide Cotton Conferences, New Orleans, LA. National Cotton Council, Memphis, TN.
- Sorenson, C. E., R. Kuhr, and M. Cuales. 2006. ENT 201:Emulating a dynamic lecture in an online environment. Pp 2881-2884 *In* Proceedings, 18<sup>th</sup> Annual ED-MEDIA World Conference on Educational Multimedia, Hypermedia, and Telecommunications, Orlando, FL. Assoc. Advancement of Computing in Education, Norfolk, VA.

### Abstracts and Brief Technical Reports

- Sorenson, C. E., C. O. Knowles, S. F. Abd-Elgahafar, G. S. Smith, H. F. Mammen, and H. G. Townsend. 1994. Abundance and insecticide susceptibility of bollworm and tobacco budworm in Missouri during 1993. pp 132. *In* Proceedings, Second National Integrated Pest Management Symposium/Workshop, Las Vegas.

- Sorenson, C. E., and N. H. Ellis. 1998. Impact of no-till culture on insects in burley and flue cured tobacco in North Carolina. Abstract in Proceedings, 38th Tobacco Workers' Conference, Lexington, KY
- Clements, K. M., R. M. Roe, B. M. Wiegman, P. A. Neese, and C. E. Sorenson. 1998. The *Myzus persicae* (Sulzer) species problem: progress towards resolution. Abstract in Proceedings, 38th Tobacco Workers Conference, Lexington, KY.
- Southern, P. S., C. E. Sorenson, and W. D. Smith. 1998. Phytotoxicity resulting from the use of imidacloprid and other pesticides in the tobacco greenhouse. Abstract in Proceedings, 38th Tobacco Workers Conference, Lexington, KY.
- Sorenson, C. E., A. S. Stephenson, S. B. Clewis, and C. E. Ratz. 1998. Control of tobacco aphids with systemic insecticides, 1997a. Arthropod Management Tests 23: 301.
- Sorenson, C. E., A. S. Stephenson, S. B. Clewis, and C. E. Ratz. 1998. Control of tobacco aphids with systemic insecticides, 1997b. Arthropod Management Tests 23: 302.
- Sorenson, C. E., A. S. Stephenson, S. B. Clewis, and C. E. Ratz. 1998. Control of tobacco aphids with foliar insecticides, 1997a. Arthropod Management Tests 23: 302-303.
- Sorenson, C. E., A. S. Stephenson, S. B. Clewis, and C. E. Ratz. 1998. Control of tobacco aphids with foliar insecticides, 1997b. Arthropod Management Tests 23: 303.
- Sorenson, C. E., A. S. Stephenson, S. B. Clewis, and C. E. Ratz. 1998. Control of tobacco aphids with foliar insecticides, 1997c. Arthropod Management Tests 23: 303-304.
- Sorenson, C. E., A. S. Stephenson, S. B. Clewis, and C. E. Ratz. 1998. Control of tobacco hornworms with foliar insecticides, 1997a. Arthropod Management Tests 23: 304.
- Sorenson, C. E., A. S. Stephenson, S. B. Clewis, and C. E. Ratz. 1998. Control of tobacco hornworms with foliar insecticides, 1997b. Arthropod Management Tests 23: 304-305.
- Sorenson, C. E., A. S. Stephenson, S. B. Clewis, and C. E. Ratz. 1998. Control of tobacco wireworms with spring applications of Lorsban, 1997. Arthropod Management Tests 23: 304-305.
- Sorenson, C. E., A. S. Stephenson, and R. P. Crosby. 2001. Control of tobacco aphids with foliar insecticides, 2000. Arthropod Management Tests 26:
- Sorenson, C. E., A. S. Stephenson, and R. P. Crosby. 2001. Control of tobacco wireworms with spring applications of Admire, 2000. Arthropod Management Tests 26:
- Sorenson, C. E., A. S. Stephenson, and R. P. Crosby. 2001. Control of tobacco budworms with foliar insecticides, 2000. Arthropod Management Tests 26:
- Peedin, G. F., J.A. Priest, and C.E. Sorenson. 1999. Fertilization of flue-cured tobacco with liquid nitrogen sources containing relatively high concentrations of ammonium N. Abstract in proceedings of CORESTA Meeting, Suzhou, China.
- Peedin, G.F., C.E. Sorenson, T.A. Melton, and J.A. Priest. 2000. Use of UAN solutions as nitrogen side-dress fertilizers for flue-cured tobacco. Abstract in Proceedings, 39th Tob Workers' Conference, Williamsburg, VA.
- Sorenson, C. E., W. Bailey; R. M. Roe; C. E. Ratz. 2000. Response of five *Heliothis virescens* (F.) populations from the Southeastern United States to acephate. Abstract in Proceedings, 39th Tob. Workers' Conference, Williamsburg, VA.
- Sorenson, C. E., M. R. Abney, T. R. Juba, and P. S. Southern. 2002. Redefining Tobacco Budworm Thresholds in Budworm Resistant and Susceptible Flue-cured Tobacco. Abstract in Proceedings, 40<sup>th</sup> Tobacco Workers Conference, Pinehurst, NC.
- Sorenson, C. E. 2002. Evaluation of Insecticide Management Programs Utilizing New Insecticidal Chemistry Under North Carolina Growing Conditions. Abstract in Proceedings, 40<sup>th</sup> Tobacco Workers Conference, Pinehurst, NC.
- Kennedy, E., C. E. Sorenson, and P. S. Southern. 2004. Describing Tobacco Budworm Injury and Damage Relationships in Flue-cured Tobacco Under North Carolina Growing Conditions Through Plant-by Plant Analysis. . Abstract in Proceedings, 41<sup>st</sup> Tobacco Workers Conference, Nashville, TN.
- Sorenson, C. E., and E Rountree. 2004. Do Neonicotinoid Insecticides Exhibit Ovicidal Activity Against Tobacco Hornworm? Abstract in Proceedings, 41<sup>st</sup> Tobacco Workers Conference, Nashville, TN.
- Abney, M. R., F. Gould, and C. E. Sorenson. 2004. Use of stable isotopes to determine host origin of tobacco budworm populations in North Carolina. Abstract in Proceedings, 41<sup>st</sup> Tobacco Workers Conference, Nashville, TN.

Sorenson, C. E., and R. Kuhr. 2006. Insects and People: Emulating a dynamic lecture on-line. Pp. 77-78 in Proceedings, North American Forest Insect Work Conference, Asheville, NC

### Popular Articles

- Sorenson, C. E. 2000. Nature's Ways: Hornets at Rest. *Wildlife in North Carolina*, 64(11): 2-3.
- Sorenson, C. E. 2000. Swan Music. *Wildlife in North Carolina*, 64(12): 21-23.
- Sorenson, C. E. 2001. Nature's Ways: The Cane Connection. *Wildlife in North Carolina* 65(5): 2-3.
- Sorenson, C. E. 2001. Nature's Ways: The Catalpa and the Caterpillar. *Wildlife in North Carolina* 65(6): 2-3.
- Sorenson, C. E. 2001. Nature's Ways: A Golden Community. *Wildlife in North Carolina* 65(8): 2-3.
- Sorenson, C. E. 2001. Nature's Ways: Brothers' Keepers. *Wildlife in North Carolina* 65(11): 33.
- Sorenson, C. E. 2002. Nature's Ways: Nectar Thieves. *Wildlife in North Carolina* 66(5): 36.
- Sorenson, C. E. 2002. Nature's Ways: Lethal Ladies. *Wildlife in North Carolina* 66(7): 36.
- Sorenson, C. E. 2002. On Gossamer Wings. *Wildlife in North Carolina* 66(8): 16-17.
- Sorenson, C. E. 2002. Nature's Ways: Cuckoo for Caterpillars. *Wildlife in North Carolina* 66(9): 36.
- Sorenson, C. E. 2002. One Old Guy. *Wildlife in North Carolina* 66(11): 6-11.
- Sorenson, C. E., 2003 Alien Claws. *Wildlife in North Carolina* 67(1) 20-23.
- Sorenson, C. E. 2003. Nature's Ways: Early Nesters. *Wildlife in North Carolina* 67(1) 36.
- Sorenson, C. E. 2003. Nature's Ways: Of All the Gall. *Wildlife in North Carolina* 67(4) 36.
- Sorenson, C. E. 2003. Nature's Ways: Survival of the Bobbleheads. *Wildlife in North Carolina* 67(9) 36.
- Sorenson, C. E. 2003. Nature's Ways: State Fair Sunflowers. *Wildlife in North Carolina* 67(10) 35.
- Sorenson, C. E. 2003. Nature's Ways: A Blackbird of a Different Color. *Wildlife in North Carolina* 67(11) 34.
- Sorenson, C. E. 2003. Nature's Ways: The Flies of Winter. *Wildlife in North Carolina* 67(12) 33.
- Sorenson, C. E. 2004. The Only Good Roach. *Wildlife in North Carolina* 68(1) 22-27.
- Sorenson, C. E. 2004. Nature's Ways: Great Big Voice, Little-bitty Bird. *Wildlife in North Carolina* 68(2) 35.
- Sorenson, C. E. 2004. Nature's Ways: Are All Female Bluegills Really Female? *Wildlife in North Carolina* 68(6): 39.
- Sorenson, C. E. 2004. Nature's Ways: Why Don't Lizards Bleed to Death When They Lose Their Tails? *Wildlife in North Carolina* 68(7): 39.
- Sorenson, C. E. 2004. Nature's Ways: How Does a Flounder Change Color? *Wildlife in North Carolina* 68(8): 39.
- Sorenson, C. E. 2004. Nature's Ways: How Does a Moth Find a Mate in the Dark? *Wildlife in North Carolina* 68(9) 39.
- Sorenson, C. E. 2005. Extreme Birding. *Wildlife in North Carolina*. 69(1): 4-7.
- Sorenson, C. E. 2005. To See a Snowy Owl. *Wildlife in North Carolina*. 69(1): 8-11.
- Sorenson, C. E. 2005. Nature's Ways: How Does an Owl Find its Prey in the Dark? *Wildlife in North Carolina*. 69(1): 39.
- Sorenson, C. E. 2005. Nature's Ways: Why Don't Spiders Get Stuck in their Webs? *Wildlife in North Carolina*. 69(2): 39.
- Sorenson, C. E. 2005. Nature's Ways: Why Are Some Fish Slimier than Others? *Wildlife in North Carolina*. 69(3): 39.
- Sorenson, C. E. 2005. Nature's Ways: How Do Tunas Swim So Fast? *Wildlife in North Carolina* 69(4):39.
- Sorenson, C. E. 2005. Nature's Ways: Do Sharks Really Smell Blood? *Wildlife in North Carolina* 69(7):39.
- Sorenson, C. E. 2005. Little Things that Go Buzz in the Night. *Wildlife in North Carolina* 69(8): 26-31.
- Sorenson, C. E. 2005. Nature's Ways: How Do Insects Breathe Underwater? *Wildlife in North Carolina* 69(8):39.
- Sorenson, C. E. 2005. Linville Gorge and Surrounding Area. In *Birding North Carolina*, M. Brooks and M. Johns, eds. FalconGuide-Globe Pequot Press, Guilford CT. pp 135-138.
- Sorenson, C. E. 2005. Nature's Ways: How Does a Seed-Eating Dove Feed Its Young? *Wildlife in North Carolina* 69(9):39.
- Sorenson, C. E. 2005. Nature's Ways: How do Migrating Birds Navigate? *Wildlife in North Carolina* 69(10):39.
- Sorenson, C. E. 2005. Nature's Ways: What Do Deer Markings Mean? *Wildlife in North Carolina* 69(11):39.
- Sorenson, C. E. 2006. Nature's Ways: How Do Rhodies React to Cold? *Wildlife in North Carolina* 70(1):39.

- Sorenson, C. E. 2006. Nature's Ways: How Does a Pickerel Pluck its Prey? *Wildlife in North Carolina* 70(2):39.
- Sorenson, C. E. 2006. Nature's Ways: What Keeps a Woodpecker's Brain From Turning to Mush? *Wildlife in North Carolina* 70(5):39.
- Sorenson, C. E. 2006. Tribute to David Williams in "The Art of Making it Real." *Wildlife in North Carolina* 70(5): 23.
- Sorenson, C. E. 2006. Ticked Off. *Wildlife in North Carolina* 70(6): 16-21.
- Sorenson, C. E. 2006. Nature's Ways: How Do Ticks Find Hosts? *Wildlife in North Carolina* 70(6): 39.
- Sorenson, C. E. 2006. Nature's Ways: How Can Sperm Whales Dive So Deep? *Wildlife in North Carolina* 70(7): 39.
- Sorenson, C. E. 2006. Nature's Ways: How Do Jellyfish Find Their Way With No Brain? *Wildlife in North Carolina* 70(8): 39.
- Sorenson, C. E. 2006. Nature's Ways: How Do "Unarmed" Caterpillars Defend Themselves Against Predators? *Wildlife in North Carolina* 70(9): 39.
- Sorenson, C. E. 2006. Nature's Ways: Why Do Mushrooms Grow in Rings Around Some Woodland Trees? *Wildlife in North Carolina* 70(10): 39.
- Sorenson, C. E. 2006. Nature's Ways: Why Don't Ducks' Feet Freeze When They Sleep on Ice? *Wildlife in North Carolina* 70(12): 39.
- Sorenson, C. E. 2006. Monarch Butterfly. For the Entomological Foundation, pp 132-133 in *Going, Going, Gone: Animals on the Brink of Extinction and How to Turn the Tide*. Think Books, London, UK.
- Sorenson, C. E. 2007. Nature's Ways: How Can Gulls and Other Seabirds Drink Saltwater? *Wildlife in North Carolina* 71(1): 39.
- Sorenson, C. E. 2007. Burt Spiller Sold Me a Bill of Goods. *Wildlife in North Carolina* 71(2) 26-31.
- Sorenson, C. E. 2007. Nature's Ways: How Do Grouse Survive Freezing Mountain Temperatures? *Wildlife in North Carolina* 71(2): 39.
- Sorenson, C. E. 2007. Nature's Ways: How did Blight Kill the Chestnut? *Wildlife in North Carolina* 71(3): 39.
- Sorenson, C. E. 2007. Nature's Ways: How Do American Shad Hear? *Wildlife in North Carolina* 71(5): 39.
- Sorenson, C. E. 2007. Nature's Ways: How Do Roanoke Bass Swim in Strong Currents? *Wildlife in North Carolina* 71(6): 39.
- Sorenson, C. E. 2007. Nature's Ways: How Do Squirrels See So Well? *Wildlife in North Carolina* 71(7): 39.
- Sorenson, C. E. 2007. Nature's Ways: How Do Octopus Suckers Work? *Wildlife in North Carolina* 71(8): 39.
- Sorenson, C. E. 2007. Nature's Ways: How Can River Herring Live in Both Fresh and Salt Water? *Wildlife in North Carolina* 71(10): 39.
- Sorenson, C. E. 2007. Nature's Ways: How Do Ferns Reproduce? *Wildlife in North Carolina* 71(11): 39.
- Sorenson, C. E. 2007. Nature's Ways: How Do Pocosins Form? *Wildlife in North Carolina* 71(12): 39.
- Sorenson, C. E. 2008. Nature's Ways: Why Are There So Many Different Kinds of Puddle Ducks? *Wildlife in North Carolina* 72(1): 39.

## Teaching

*Agricultural Entomology*, Junior -level undergraduate Course. Southeast Missouri State University, Cape Girardeau, MO, Fall, 1994.

*Fundamentals of Insect Control* (ENT 550), Graduate Course. North Carolina State University, Raleigh, NC Annually in the Fall Semester, since 1997.

*Insects and People* (ENT 201). Undergraduate Course. North Carolina State University, Raleigh, NC. Spring 2001, Spring 2002, every Spring and Fall Semester starting Spring 2003.

*Insects and People* (ENT 201) *Distance Education Section*. Web-based section of ENT 201, every Spring and Fall Semester starting Fall 2005.

*Preharvest Food Safety* (FSA 520) Graduate Course. North Carolina State University, Raleigh, NC. Fall, 2000, 2001, 2002, 2003, 2004, 2005. Responsible for 29% of the content of this course.

*Agricultural Entomology Practicum* (ENT 641/841) Graduate course. North Carolina State University, Raleigh, NC. Odd numbered summers starting 2005.

### **Graduate Committee service:**

Nicolas Ellis- M.S. Entomology, Committee chair (resigned assistantship)  
Tom Juba- M.S., Entomology, Committee chair (defended 10/13/00)  
Randy Outward- M.S., Entomology, Committee chair (defended 2/1/02)  
Mark Abney, Ph.D., Entomology, Committee Co-chair (defended 3/05)  
Jessica Lawrence, M.S. Entomology, Committee chair (started 7/1/06)  
Anirudh Dhammi, M.S. Entomology, Committee chair (started 1/1/07)  
Mariah Bock, M.S. Entomology, Committee chair (started 7/1/07)  
Ellen Kennedy, M.S., Entomology, Committee co-chair (terminated)  
Tony Burd- Ph.D., Entomology, Committee member (defended 2001)  
Walt Lane- M.S., Zoology, Committee member (defended 2000)  
Melissa Thornton, M.S., Entomology, Committee member (defended 2006)  
Ryan Jackson, Ph.D., Entomology, Committee member (defended 2002)  
Scott Clewis, M.S., Crop Science, Committee member (defended 2001)  
Salinda Daley, M.S., Zoology, Committee member (defended 2002)  
Margery Ambrose, M.S., Entomology, Committee member (defended 2003)  
Matt Bertone, M.S., Entomology, Committee member (defended 2004)  
Tracey Champlin, M.S., Forestry, Committee member (defended 2006)  
Jimmy Dodson, M.S. Forestry, Committee member  
Elina Lastro, M.S. Entomology, Committee member (defended 2006)  
Ryan Kurtz, Ph.D. Entomology, Committee member (defended 2006)  
Eric Blinka, Ph.D. Entomology, Committee member  
Julie Jailall, DED, Education Leadership and Program Evaluation, Committee member (defended 2006)  
Jason Beecher, M.S., Food Science, Committee member (defended 2006)  
Amelia Savage, M.S., Forestry (wildlife biology), Committee member  
Jaap Van Kretschmar, Ph.D., Entomology, committee member  
James McNelly, Ph.D., Entomology, committee member  
Whitney Swink, M.S., Entomology, committee member  
Jake Duskocil, Ph.D., Entomology, committee member

### **Extension Publications**

Sorenson, C. E., and R. W. Hammond. 1989. The "Cottonwood" shield bearer. Nevada Cooperative Extension Fact Sheet no. 89-34. 4 pp.

Sorenson, C. E., and C. L. Mills. 1989. The Apache cicada in Nevada. Nevada Cooperative Extension Fact Sheet no. 89-78. 4 pp.

Sorenson, C.E. 1990. Alfalfa weevil management in Nevada. Slide Set.

Sorenson, C.E. 1990. Black widow spiders in Nevada. Nevada Cooperative Extension Fact Sheet no. 90-10. 4 pp.

Johnson, W. S., & C.E. Sorenson. 1990. Honeylocust pod gall midge. Nevada Cooperative Extension Fact Sheet no. 90-21. 4 pp.

Sorenson, C.E. 1990. The gypsy moth in Nevada. Nevada Cooperative Extension Fact Sheet no. 90-39. 4 pp.

Sorenson, C.E. 1990. The Russian wheat aphid in Nevada. Nevada Cooperative Extension Fact Sheet no. 90-40. 4 pp.

Sorenson, C.E., and W. H. Arnett. 1990. Alfalfa leafcutting bee: parasitic chalcid wasps and their control. Nevada Cooperative Extension Fact Sheet. no. 90-41. 4 pp.

Sorenson, C.E., & W. J. Peterson. 1990. Yellowjacket wasps in Nevada. Nevada Cooperative Extension Fact Sheet no 90-48. 4 pp.

Sorenson, C.E. 1991. The Russian wheat aphid in Nevada. Slide Set.

Crites, A., V. Haldeman, & C.E. Sorenson. 1991. Disposal of household hazardous waste. Nevada Cooperative Extension Fact Sheet no. 91-15. 4 pp.

Sorenson, C.E. 1991. The Ash Whitefly: A New Pest of Ornamental Plants and Fruit Trees in Nevada. Nevada Cooperative Extension Fact Sheet no. 91-16. 4 pp.

Torrell, D., C.E. Sorenson, & G. Wheeler. 1991. The Mormon cricket in Nevada: its biology and management. Nevada Cooperative Extension Fact Sheet no. 91-20. 4 pp.

- Sorenson, C.E., & N. L. Markee. 1991. Use and care of pesticide protective clothing. Nevada Cooperative Extension Fact Sheet no. 91-22. 4 pp.
- Sorenson, C.E., N. L. Markee, & T.Z. Froebel. 1991. El uso y cuidado de Ropa Protectora contra Pesticidas. Nevada Cooperative Extension Fact Sheet no. 91-23. 4 pp. (Spanish-language version of FS no. 91-22.)
- Sorenson, C.E., & J. DeWitt. 1991. Pesticide use in Nevada Agriculture- Growers' response. Nevada Cooperative Extension Special Pub. SP-91-07. 27 pp.
- Sorenson, C.E., & C. Neel. 1991. Working safely with pesticides: a guide for landscape and agricultural workers. ca. 15 minute VCR video.
- Sorenson, C.E., & P. Baker. 1992. Pesticide Residues. In *Food Safety Fact Finder for Media*, J. Benedict, ed. Nevada Cooperative Extension Special Publication SP-92-06. p 11-18.
- Sorenson, C.E. 1993. Cotton and Rice Insect Management Recommendations. In *Handbook for the Management of Insects and Plant Diseases*. Missouri Cooperative Extension.
- Sorenson, C.E. 1994. Cotton and Rice Insect Management Recommendations. In *Handbook for the Management of Insects and Plant Diseases*. Missouri Cooperative Extension.
- Sorenson, C. E. 1995. The boll weevil in Missouri: history, biology, and management. MO Cooperative Extension Guidesheet. MO Cooperative Extension Guidesheet. 4 pp.
- Sorenson, C.E. 1995. Cotton and Rice Insect Management Recommendations. In *Handbook for the Management of Insects and Plant Diseases*. Missouri Cooperative Extension.
- Bailey, W. and C.E. Sorenson 1995. Soybean and Wheat Insect Management Recommendations. In *Handbook for the Management of Insects and Plant Diseases*. Missouri Cooperative Extension.
- Sorenson, C.E. 1996. Controlling insects in rice. MO. Cooperative Extension Guidesheet. 3 pp.
- Sorenson, C. E., D. Jeppson, and K. Badertscher. 2006. Managing boxelder bugs. Nevada Cooperative Extension Fact Sheet 06-84. 4 pp.
- Contributing Author, Midwest Vegetable Production Guide for Commercial Growers, 1993-1996.
- Newsletters:*
- Sorenson, C. E. 1989-1992. *Nevada IPM Update*. Monthly. Circulation ca. 300.
- Sorenson, C. E. 1993-1996. *Southeast Missouri Pest Update*. Weekly, May-September. Circulation ca. 1200.
- Contributor, *Missouri Cotton News* (Monthly, circulation ca. 1200); Univ. MO newsletter *Integrated Pest and Crop Management*.
- Revised tobacco sections of *2007 North Carolina Agricultural Chemicals Manual*, and insect control sections of *2007 Flue-cured and Burley Tobacco Production Guides*.

### **Professional Presentations**

- Sorenson, C. E. 1984. Effects of plant growth factors on resistance of a tomato to the Colorado potato beetle. Paper presented at the 1984 National ESA Conference, San Antonio, TX.
- Sorenson, C. E. 1986. Second-generation European corn borer damage related to temporal egg distribution in field corn. Paper presented at the 1986 National ESA Conference, Reno, NV.
- Van Duyn, J. W., and C. E. Sorenson. 1987. European corn borer management in North Carolina. Poster presentation at North Carolina Corn Grower's Association Annual Meeting, Raleigh, NC.
- Sorenson, C. E., G. G. Kennedy, and J. W. Van Duyn. 1987. Pheromone strain differences in European corn borer populations in eastern North Carolina. Poster presentation at the Entomological Society of America 1987 National Conference, Boston MA.
- Sorenson, C. E., J. W. Van Duyn, G. G. Kennedy, and J. R. Bradley, Jr. 1987. A monitoring plan for second generation European corn borer in field corn in North Carolina. Symposium address presented at the 55th Eastern Branch ESA Meeting, Atlantic City, NJ.
- Sorenson, C.E. 1988. A management program for second generation European corn borer in North Carolina. Seminar, Department of Entomology, North Carolina State University, Raleigh, NC.
- Sorenson, C.E., G.G. Kennedy, and J.W. Van Duyn. 1988. The effect of crop species on the distribution of male European corn borer. Paper presented at the 1988 National ESA Conference, Louisville, KY.
- Sorenson, C.E. 1988. Management of second generation European corn borer in North Carolina. Lecture presented to The North Carolina Agricultural Foundation, Raleigh, NC.

- Sorenson, C.E. 1990. Economic Entomology in Nevada. Seminar, Department of Biochemistry, University of Nevada, Reno, NV.
- Sorenson, C. E. 1992. IPM East and West: Extension and Research Experiences in North Carolina and Nevada. Seminar, College of Agriculture, University of Missouri-Columbia.
- Sorenson, C. E. 1993. Entomological Research Priorities and Opportunities in Southeastern Missouri. Seminar, Department of Entomology, University of Missouri-Columbia.
- Sorenson, C. E., C. O. Knowles, G. S. Smith, H. F. Mammen, and H. G. Townsend. 1994. Abundance and insecticide susceptibility of bollworm and tobacco budworm in Missouri during 1993. Poster Presentation, National Beltwide Cotton Meetings, San Diego, CA.
- Sorenson, C. E., and A. Keaster. 1994. Effect of maize maturity group and planting date on girdling behavior in southwestern corn borer. Poster Presentation, Entomological Society of America 1994 National Conference, Dallas TX.
- Sorenson, C.E. and J. House. 1995. Winter habitat microclimate and winter cold tolerance of boll weevils in Missouri: a preliminary report. Poster Presentation, National Beltwide Cotton Conferences, San Antonio, TX.
- Sorenson, C.E. 1995. Cotton IPM in the Mid-South. Seminar, Department of Entomology, University of Missouri-Columbia.
- Steiner, W.W.M., D. Davis, C.E. Sorenson, and D. Zhou. 1995. Flightless mutations in *Microplitis croceipes* and their use in biological control: Tailoring insects to fit the agroecosystem. Poster Presentation, 71st Annual Meeting Central States Entomological Society, Columbia, MO.
- Sorenson, C. E., C.M. Chippendale, D. McCauley, and S. Baskauf. 1995. Seasonal occurrence, distribution, and suicidal emergence of Southwestern corn borer in Southeastern Missouri and Eastern Kentucky. Poster Presentation, Entomological Society of America 1995 National Conference, Las Vegas, NV.
- Vitanza, S., C. E. Sorenson, and W.C. Bailey. 1995. Impact of warm-season grass strips on arthropod populations in Missouri cotton fields. Poster Presentation, Entomological Society of America 1995 National Conference, Las Vegas, NV.
- Sorenson, C. E., & M. George. 1996 Survival of Missouri boll weevils exposed to freezing temperatures with and without ice nucleators. Paper presented at National Beltwide Cotton Conferences, Nashville, TN.
- Sorenson, C. E., R. D. Parker, & M. B. Layton. 1996. Relative cold tolerance of boll weevils from Missouri, Mississippi, and coastal Texas. Poster presented at National Beltwide Cotton Conferences, Nashville, TN.
- Vitanza, S., C. E. Sorenson, & W. Bailey. 1996. Impact of warm-season perennial grass strips on cotton insects. Paper presented at National Beltwide Cotton Conferences, Nashville, TN.
- Grundler, J., & C. E. Sorenson. 1997. An intensive boll weevil trapping effort in southern Missouri. pp 971-973. Paper presented at 1997 Beltwide Cotton Conferences, New Orleans, LA.
- Sorenson, C. E., S. Baskauf, and D. McCauley. 1997. Latitudinal occurrence of southwestern corn borer in Southeast Missouri, Kentucky and Indiana after a severe winter. Poster Presentation, Entomological Society of America Southeast Branch Meeting, Asheville, NC.
- Sorenson, C. E. 1997. Tobacco, entomology, and beyond. Seminar, Department of Entomology, North Carolina State University, Raleigh.
- Sorenson, C.E., and P. T. Bromley. 1997. Effects of feral field borders on insects in cotton and soybean fields. Poster Presentation, 45<sup>th</sup> Entomological Society of America 1997. National Conference, Nashville, TN.
- Vitanza, S., W. C. Bailey, C. E. Sorenson, and M. Boyd. 1997. Influence of annual and perennial vegetation strips in Missouri Cotton fields. Poster Presentation, 45<sup>th</sup> Entomological Society of America 1995 National Conference, Nashville, TN.
- Sorenson, C. E., and N. H. Ellis. 1998. Impact of no-till culture on insects in burley and flue-cured tobacco in North Carolina. Paper presented at the 38th Tobacco Workers Conference, Lexington, KY.
- Clements, K. M., R. M. Roe, B. M. Wiegman, P. A. Neese, and C. E. Sorenson. 1998. The *Myzus persicae* (Sulzer) species problem: progress towards resolution. Paper presented at the 38th Tobacco Workers Conference, Lexington, KY.
- Southern, P. S., C. E. Sorenson, and W. D. Smith. 1998. Phytotoxicity resulting from the use of imidacloprid and other pesticides in the tobacco greenhouse. Paper presented at the 38th Tobacco Workers Conference, Lexington, KY.

- Bailey, W. D., F. Gould, C. E. Sorenson, J. S. Bacheler, G. G. Kennedy, G. Zhao, R. M. Roe, and L. M. Carter. 1998. Feeding disruption as a bioassay for the diagnosis of species and Bt resistance in *Heliothis virescens* and *Helicoverpa zea* in cotton. Paper presented at the 46<sup>th</sup> Ent. Soc. Of America Annual Meeting, Las Vegas, NV.
- Clements, K. M., C. F. Smith, C. E. Sorenson, P. A. Neese, B. M. Wiegmann, and R. M. Roe. 1998 Classification of the tobacco aphid, *Myzus nicotianae* Blackman: Progress towards resolution. . Paper presented at the 46<sup>th</sup> Ent. Soc. Of America Annual Meeting, Las Vegas, NV.
- Sorenson, C. E., Bailey, W. D., G. Zhao, L. M. Carter, F. Gould, G. G. Kennedy, J. S. Bacheler, and R. M. Roe. 1998. Resistance detection and early diagnosis of bollworms and tobacco budworms. Lecture delivered at the North Carolina Crop Protection School, Raleigh.
- Sorenson, C. E., and R. J. Outward. 1999. Effects of managed feral vegetation field borders on insects in cotton and soybean fields in North Carolina: An interim report. Poster presentation, 1999 Beltwide Cotton Conferences, Orlando FL.
- Sorenson, C. E., G. G. Kennedy, J. Walgenbach, and C. Schal. 1999. European corn borer pheromone race distribution: Shifts over time? Poster presentation at the 47<sup>th</sup> Ent. Soc. Of America Annual Meeting, Atlanta, GA.
- Bailey, W., C. Brownie, F. Gould, G. Kennedy, J. Bacheler, C. Sorenson, and R. M. Roe. 1999. Feeding disruption bioassay for species diagnosis and *Bacillus thuringiensis* resistance monitoring of tobacco budworm and bollworm field strains collected from the southern US. Poster presentation at the 47<sup>th</sup> Ent. Soc. Of America Annual Meeting, Atlanta, GA.
- Bailey, W. D., R. M. Roe, H. P. Young, C. Wyss, F. Gould, J. S. Bacheler, G. G. Kennedy, C. E. Sorenson, and C. Brownie. 2000. Validation of feeding disruption bioassays for species diagnosis and *Bacillus thuringiensis*-resistance monitoring of bollworm and tobacco budworm field strains. Paper presented at the 2000 Beltwide Cotton Conferences, San Antonio, TX.
- Outward, R. I., and C. E. Sorenson. 2000. Effects of fallow vegetation field borders on arthropods in cotton and soybean fields in eastern North Carolina. Poster presentation at the 2000 Beltwide Cotton Conferences, San Antonio, TX.
- Sorenson, C. E., W. D. Bailey, R. M. Roe, and C. E. Ratz. 2000. Response of five *Heliothis virescens* (F.) populations from the southeastern United States to acephate. Paper presented at the 39<sup>th</sup> Tobacco Workers' Conference, Williamsburg, VA.
- Peedin, G.F., C.E. Sorenson, T.A. Melton, and J.A. Priest. 2000. Use of UAN Solutions as Nitrogen Sidedress Fertilizers for Flue-Cured Tobacco. Paper presented at the 39<sup>th</sup> Tobacco Workers' Conference, Williamsburg, VA.
- Sorenson, C. E., J. W. Van Duyn, and J.R. Bradley J. 2001. Western corn Rootworm in North Carolina: Studies leading to improved Understanding and Management. Poster Presentation at the Joint Meeting of the North Carolina Corn, Soybean and Small Grains Producers associations, Raleigh, NC
- Sorenson, C. E., and R. I. Outward. 2001. Insects and Edges: Impacts of feral vegetation field borders on beneficial and pest insects. Invited presentation to the Regional NRDC Buffers Short course, Starkville MS.
- Sorenson, C. E., M. R. Abney, T. R. Juba, and P.S. Southern. 2002 Redefining tobacco budworm thresholds in budworm resistant and susceptible flue-cured tobacco. Paper presented at the 40<sup>th</sup> Tobacco Workers' Conference, Pinehurst, NC.
- Sorenson, C. E. 2002. Evaluation of Insecticide Management Programs Utilizing New Insecticidal Chemistry Under North Carolina Growing Conditions. Paper presented at the 40<sup>th</sup> Tobacco Workers' Conference, Pinehurst, NC.
- Sorenson, C. E., K. Clements, P. S. Southern, and R. M. Roe. 2002. *Myzus* aphids in tobacco in the Southeastern United States: Who are they, and what do we do about them? Symposium address to International Symposium: Basic and Applied Aspects of the Integrated Management of *Myzus* Aphids. Univerisdad de Talca, Talca, Chile.
- Sorenson, C. E., and M. R. Abney. 2002. New Insecticidal Chemistry in Tobacco: Implications for Tobacco Budworm Management in a Tobacco-Cotton Agroecosystem. Paper presented at "Pesticides in the Molecular Age" symposium, Orlando, FL.
- Sorenson, C. E. 2003. Sophomores in the classroom seats: A graduate department's service to the undergraduate community. Symposium address at the Southeastern Branch Meeting, Ent. Soc. America, Baton Rouge, LA.
- Abney, M. R., C. E. Sorenson, and J. R. Bradley, Jr. 2003. Population dynamics of *Heliothis virescens* in a multiple crop-host system. Poster Presentation at the Southeastern Branch Meeting, Ent. Soc. America, Baton Rouge, LA.

- Abney, M.R., C.E. Sorenson, and J.R. Bradley Jr. 2003. Population dynamics of *Heliothis virescens* in a multiple crop system. 2003 Beltwide Cotton Conf. Nashville, TN.
- Sorenson, C. E. 2003. Effects of simulated tobacco budworm damage on tobacco management costs. Poster presentation at the 51<sup>st</sup> Ent. Soc. Of America Annual Meeting, Cincinnati, OH.
- Sorenson, C. E., S. Daley, and R. Outward. 2003. Bobwhites, borders, and bugs: How one wildlife habitat enhancement might affect pest management. Invited presentation to 55<sup>th</sup> Annual Crop Protection School, Raleigh, NC.
- Sorenson, C. E., and E. Rountree. 2004. Do neonicotinoid insecticides exhibit ovicidal activity against tobacco hornworm? Paper presented at the 41<sup>st</sup> Tobacco Workers' Conference, Nashville, TN.
- Kennedy, E., C. E. Sorenson, and P. S. Southern. 2004. Describing tobacco budworm injury and damage relationships in flue-cured tobacco under North Carolina growing conditions through plant-by-plant analysis. Paper presented at the 41<sup>st</sup> Tobacco Workers' Conference, Nashville, TN.
- Abney, M. R., C. E. Sorenson, and J.R. Bradley, Jr. 2004. Alternate Crop Hosts as Resistance Management Refuges for Tobacco Budworm. Presentation at 2004 Beltwide Cotton Conf., San Antonio, TX
- Abney, M. R., F. Gould, and C. E. Sorenson. 2004. Use of stable isotopes to determine host origin of tobacco budworm populations in North Carolina. Paper presented at the 41<sup>st</sup> Tobacco Workers' Conference, Nashville, TN.
- Sorenson, C. E., P. S. Southern, T. Juba, E. Kennedy, and M. R. Abney. 2004. The Tobacco Budworm, *Heliothis virescens* (F.) in North Carolina Tobacco: Decommissioning a Prominent Pest? Poster presented at 22<sup>nd</sup> International Congress of Entomology, Brisbane, Australia.
- Kennedy, E., C. E. Sorenson, and P. S. Southern. 2004. Evaluation of yield, visual damage, and topping by the tobacco budworm at four growth stages of flue-cured tobacco in North Carolina. Poster presentation at the 52<sup>nd</sup> Ent. Soc. Of America Annual Meeting, Salt lake city, Utah.
- Abney, M. R., C. E. Sorenson, F. Gould, and J. R. Bradley, Jr. 2005. Assessing the Utility of Stable Carbon Isotopes for Determining Natal Host Origins of Tobacco Budworm, *Heliothis virescens*, in a Host Species Rich Agroecosystem. Poster presentation at 2005 Beltwide Cotton Conferences, New Orleans, LA.
- Sorenson, C. E., and J. Bacheler. 2005. Occurrence and Management of Pesticide Resistance in North Carolina Crops- Insecticides. Invited presentation to 57<sup>th</sup> Annual Crop Protection School, Raleigh, NC.
- Sorenson, C. E. 2005. Insect Communication. Guest Lecture, UNC Pembroke Biology Department.
- Sorenson, C. E., J. Hurley, M. R. Abney, and P. S. Southern. 2006. Investigations into the management of the tobacco splitworm in flue-cured tobacco. Paper presented at the 42<sup>nd</sup> Tobacco Workers' Conference, Charleston, SC.
- Southern, P. S., and C. E. Sorenson. 2006. Efficacy and impact of two new tobacco insecticides: Acetamiprid and clothianidin. Paper presented at the 42<sup>nd</sup> Tobacco Workers' Conference, Charleston, SC.
- Sorenson, C. E., and R. Kuhr. 2006. Insects and People: Emulating a dynamic lecture on-line. Invited presentation at the North American Forest Insect Work Conference, Asheville, NC
- Sorenson, C. E., R. Kuhr, and M. Cuales. 2006. ENT 201: Emulating a dynamic lecture in an online environment. Poster presentation at the 18<sup>th</sup> Annual ED-MEDIA World Conference on Educational Multimedia, Hypermedia, and Telecommunications, Orlando, FL.
- Sorenson, C. E. 2006. Tick-Tack-Sick: North Carolina ticks and the diseases they transmit. Presentation to the NC Mosquito and Vector Control Association Annual Meeting, Greenville, NC
- Sorenson, C. E. 2006. Tobacco insecticide update. Tobacco Day, NCCES, Raleigh, NC
- Sorenson, C. E. 2006. Digital Demos and Other Fun: Using digital media to enhance both live lecture and distance education entomology courses. Symposium address at the 54<sup>th</sup> Ent. Soc. Of America Annual Meeting, Indianapolis, IN.
- Sorenson, C. E., and R. Kuhr. 2007. Blended content: How a DE course supports on-campus students. Lecture for DELTA Faculty Seminar Series, NCSU. (Also delivered at DELTA Summer Institute, NCSU, May 2007.)
- Sorenson, C. E., S. Morsello, and G. G. Kennedy. 2007. Timing applications of a plant immune system activator against Tomato Spotted Wilt Virus in flue-cured tobacco based on projected thrips activity. Poster presentation at 55<sup>th</sup> Annual meeting of the Entomological Society of America, San Diego, CA.
- I have also delivered approximately 200 presentations to school groups and agricultural and lay audiences on various IPM, entomological, and natural history topics.

## Grants Activity

- Van Duyn, J.W. and C.E. Sorenson. 1988. Investigations into improving European corn borer (*Ostrinia nubilalis*) pheromone trapping technology. \$ 103,819. Agrimont S.P.A., Milan, Italy.
- Sorenson, C.E. 1989. Evaluation of data on RPAR and pre-RPAR pesticides essential for Nevada Agriculture. \$ 5,000.00. USDA-CSRS.
- Sorenson, C.E. 1990. Agricultural Pesticide Use in Nevada from the Grower's Perspective \$ 5,000.00. USDA-CSRS.
- Sorenson, C.E. 1990. Agricultural Pesticide Use in Nevada. USDA -ES Special Data Acquisition Grant. \$ 6,700.00. USDA-CES.
- Sorenson, C.E. 1991. Pesticide Use in Sod Farms, Nurseries and Golf Courses in Nevada. \$ 5,000.00 USDA-CSRS. 6,000.00 \$ USDA-CES.
- Sorenson, C.E. 1991. Differences in insecticide resistance in two *Lygus* Bug species in seed alfalfa. \$ 5,000.00. Nevada Seed Council.
- Knowles, C. O., & C. E. Sorenson. 1993-94. Validation of and mechanisms associated with *Helicoverpa zea* resistance to pyrethroids. \$ 38,000. North Central Regional Agricultural Pesticide Impact Assessment Program.
- Sorenson, C. E. 1993. Alternative management tactics for the boll weevil in southeastern Missouri. \$ 13,000. Cotton Incorporated.
- Sorenson, C. E. 1994-96. Distribution and overwintering biology of the boll weevil in Missouri. \$ 17,774 (\$ 21,000 1996). Cotton Incorporated.
- Sorenson, C. E. 1994-1997. Impact of warm season grass strips on arthropod populations in Missouri cotton fields. \$ 75,000. Missouri Department of Conservation/ University of Missouri Agricultural Research Program.
- Sorenson, C. E. 1997. Impacts of no-till culture on tobacco insects. \$21,209. North Carolina Tobacco Research Commission.
- Sorenson, C. E. 199-98. Integrating Tobacco Budworm-Resistant Tobacco into Tobacco Pest Management Systems. \$30,000. North Carolina Tobacco Foundation, Inc.
- Sorenson, C. E. 1997-98. Integrating Tobacco Budworm-Resistant Tobacco into Tobacco Pest Management Systems. \$10,000. NSF Center for IPM.
- Sorenson, C. E. 1998. Impacts of no-till culture on tobacco insects. \$21,665. North Carolina Tobacco Research Commission.
- Kennedy, G. G., J. W. Moyer, J. F. Walgenbach, V. A. Sisson, and C. E. Sorenson. 1998. Factors Influencing the Spread of Tomato Spotted Wilt Virus in Tobacco. \$30,000. North Carolina Tobacco Research Commission
- Roe, R. M., F. Gould, J. Bacheler, G. G. Kennedy, C. E. Sorenson, and C. L. Sutula. 1998. Field Kit for Insecticide Resistance/ Species Diagnosis for *Heliothis virescens* and *Helicoverpa zea* in Cotton. \$57,000. Cotton Inc.
- Roe, R., F. Gould, J. Bacheler, G. Kennedy, and C. Sorenson. 1998-2000. Species/Bt-resistance diagnosis for *Helicoverpa zea* and *Heliothis virescens* in cotton. \$90,000. USDA CSREES Southern Regional IPM.
- Sorenson, C. 1998-9. Evaluation of Tobacco Insect Management Programs Utilizing New Insecticidal Chemistry Under North Carolina Growing Conditions. \$ 9,000. N.C. Tobacco Research Commission.
- Sorenson, C. 1998-9. Evaluating the Impact Of Feral Vegetation Field Border Strips On Pest Management in North Carolina Cotton and Soybean Fields. \$11,000. NSF Center for IPM.
- Sorenson, C. E., J. W. Van Duyn, and J. R. Bradley, Jr. 1999. Western corn Rootworm in North Carolina: Studies leading to improved Understanding and Management. \$5,000. Corn Growers' Association of North Carolina
- Sorenson, C. E., and P. S. Southern. 2000-2002. Investigations into the Implications of Pyrethroid Use in Tobacco in North Carolina. \$13,246 (first year). North Carolina Tobacco Foundation, Inc.
- Sorenson, C. 1999-2000. Evaluation of Tobacco Insect Management Programs Utilizing New Insecticidal Chemistry Under North Carolina Growing Conditions. \$ 8,000. N.C. Tobacco Research Commission.
- Sorenson, C. E., J. W. Van Duyn, and J. R. Bradley, Jr. 2000. Western corn Rootworm in North Carolina: Studies leading to improved Understanding and Management. \$5,000. Corn Growers' Association of North Carolina.
- Sorenson, C. E., J. W. Van Duyn, and J. R. Bradley, Jr. 2001. Western corn Rootworm in North Carolina: Studies leading to improved Understanding and Management. \$5,000. Corn Growers' Association of North Carolina.
- Sorenson, C. E., and G. G. Kennedy. 2001. Effects of Early Fall Weed Host Manipulation on the Annual Cycle of Tomato Spotted Wilt Virus. \$10,165. N. C. Tobacco Research Commission.

Sorenson, C. E., J. W. Van Duyn, and J. R. Bradley, Jr. 2002. Western corn Rootworm in North Carolina: Studies leading to improved Understanding and Management. \$5,000. Corn Growers' Association of North Carolina.

Kennedy, G. G., and C. E. Sorenson. 2002. Managing Tomato Spotted Wilt Virus in Tobacco by Eliminating Local Virus Sources. \$35,000. N. C. Tobacco Research Commission.

Southern, P. S., and C. E. Sorenson. 2002. Refining Tobacco Budworm Thresholds through Plant-by – Plant Analysis. \$11,500. N. C. Tobacco Research Commission.

Sorenson, C. 2003. New Insecticidal chemistry in tobacco: Implications for tobacco budworm management in a cotton- tobacco agroecosystem. \$12,000. NSF Center for IPM.

Sorenson, C., & S. Southern. 2003. New Insecticidal chemistry in tobacco: Implications for tobacco budworm management in a cotton- tobacco agroecosystem. \$12,500. N. C. Tobacco Foundation.

Kennedy, G., J. Moyer, & C. Sorenson. 2003. Predicting Outbreaks of Tomato Spotted Wilt Virus. \$72,934. N. C. Tobacco Research Commission.

Sorenson, C., & S. Southern. 2003. Temporal and Spatial Occurrence of the Tobacco Splitworm in North Carolina. 5,000. N. C. Tobacco Research Commission.

Kennedy, G. G., J. Moyer, and C. E. Sorenson. 2004. Predicting Outbreaks of Tomato Spotted Wilt Virus. \$68,934. N. C. Tobacco Research Commission.

Silverman, J, M. Waldvogel, and C. E. Sorenson 2004-2006. Repellent mulches as trap crops for Argentine ants. \$61,074. USDA.

Sorenson, C. E. 2004. Utility of stable isotopes for Heliiothine larval host determination. \$7,000. North Carolina Tobacco Foundation.

Southern, S and C. Sorenson. 2003-4. Refining tobacco budworm thresholds through plant-by-plant analysis. \$12,651. N. C. Tobacco Research Commission.

Sorenson, C., & S. Southern. 2004. Effect of Application Timing on Efficacy of Selected Insecticides against *Phthorimaea operculella* (Lepidoptera: Gelechiidae) in North Carolina Flue-Cured Tobacco. \$5,000. N.C. Tobacco Research Commission.

Sorenson, C. E., & P. S. Southern. 2005. Understanding Tobacco Splitworm Damage in Flue-cured Tobacco. \$22,000. N.C. Tobacco Research Commission.

Sorenson, C. E., & P. S. Southern. 2006. Understanding Tobacco Splitworm Damage in Flue-cured Tobacco. \$15,000. N.C. Tobacco Research Commission.

I have also generated approximately \$ 350,000 in industrial gifts support, 1992-2006 (ca. 250,000 at NCSU- 96-06).

#### **Committee and Service Work** (Since coming to NCSU)

- NCSU Entomology Department's Library, Marketing, Awards and Social Committees (chair) and on the Burley Field Day and Precision Agriculture Field Day Planning Committees.
- Chair, Entomology Student-Faculty Retreat Planning Committee, 2004
- NCSU CALS Alumni Society Board
- Past President, NCSU Fisheries and Wildlife Program Alumni Society Advisory Board
- Vice-Chairman, Entomology Section, and Entomology Program Chair, 40<sup>th</sup> Tobacco Workers' Conference
- Chair, E. G. Moss Fellowship Selection Committee (NCSU)
- Chair, Soil Entomology search committee, 2002-2004
- North Carolina Pesticide Advisory Committee, Sept. 2002-
- NCSU DELTA Strategic LMS Implementation Committee Policy Subcommittee, July 2005- 2006
- NCSU CALS Distance Education Committee, August 2005-
- The Entomological Foundation's Entomology Digital Library Advisory Committee- March, 2006
- Subject Editor (Pest management) for Digital Entomology Library
- Subject Editor, Journal of Agricultural and Urban Entomology
- Section Co-editor (Field Crops), Arthropod Management Tests
- Moderator, Student Competition for the President's Prize Section F, Session Fb2 Urban Entomology, 55<sup>th</sup> Annual meeting of the Entomological Society of America, San Diego, CA



### **Honors and Professional Societies**

Award of Achievement, Society for Technical Communication 33rd International Technical Communication Conference, Detroit, MI, 1986.

Distinguished Technical Communication Award, Society for Technical Communication, Carolina Chapter 1986.

Distinguished Achievement Award in Teaching 2004, Southeastern Branch of the Entomological Society of America.

North Carolina State University Academy of Outstanding Teachers, 2004-

NCSU Alumni Outstanding Teaching Award, 2004

NCSU Gertrude M. Cox Award for Innovative Excellence in Teaching and Learning with Technology, 2006

Nominated to Phi Kappa Phi, 1984.

Entomological Society of America.

Georgia Entomological Society.

Sigma Xi.

### **Personal Information**

Born: May 21, 1958, in Albuquerque, NM.

Married to Leeann L. Sorenson

Son, Eric, age 16 years; daughter Anna, age 12 years

Interests in birding, hunting, fishing, wood carving, painting, gardening, and photography.

