

CURRICULUM VITAE

Christopher E. Carlton
Department of Entomology, LSU AgCenter
Baton Rouge, LA 70803-1710
e-mail: ccarlt@lsu.edu

EDUCATION

Bachelor of Science, Biology, 1977, Hendrix College, Conway, Arkansas.
Master's Degree, Entomology, 1983, University of Arkansas, Fayetteville.
Doctor of Philosophy, Entomology, 1989, University of Arkansas, Fayetteville.

HISTORY OF ASSIGNMENTS

Louisiana State University, Baton Rouge

1995-2000, Assistant Professor; 2000-2005, Associate Professor; 2005-2007, Professor, 2007-present, John Benjamin Holton Alumni Association Departmental Professorship in Agriculture, Department of Entomology. Research in insect systematics, Director, Louisiana State Arthropod Museum, teach systematics and general entomology courses and direct graduate training programs.

University of Arkansas, Fayetteville

1989-1995: Research Associate, Department of Entomology. Conduct research in biodiversity and systematics, provide identifications of insects and diagnoses of related problems, and curate University of Arkansas Arthropod Museum.

1982-1989: Research Assistant (degree track), Department of Entomology. Manage entomology collection and provide insect identifications.

1977-1981: Graduate Assistant, Department of Entomology. Graduate student in Master's Program.

TEACHING

Courses Taught and LSU SPOT Scores

ENTM 7001 General Entomology, co-instructed with Jim Ottea, 4 credit hours

Provides a framework of information about the evolution of insects and related arthropods, anatomy, functional morphology and physiology, and an introduction to insect diversity at the ordinal level. This course replaced 7014.

Fall 2006	Total 4.07 (College Stats 4.03); n=3
Fall 2008	Total 4.22 (College Stats 4.07); n=12
Fall 2010	Total 3.89 (College Stats 4.15); n=11
Fall 2012	Spots not available; n=12

ENTM 4005 Insect Taxonomy, 4 credit hours

This course teaches basic principles of taxonomy and nomenclature. Rapid sight identification of major families of insects and the use of identification keys is emphasized in the laboratory portion of the course. A substantial field component includes organized field trips to demonstrate collecting techniques in a variety of habitats. A collection is required.

Fall 1996	Total 4.66 (College Stats 4.10); n=12
Spring 1999	Total 4.34 (College Stats 4.01); n=17
Spring 2001	Total 4.62 (College Stats 4.10); n=12
Spring 2003	Total 4.46 (College Stats 4.03); n=14
Spring 2005	Total 4.26 (College Stats 4.10); n=19
Spring 2007	Total 4.45 (College Stats 4.09); n=12
Spring 2009	Total 4.14 (College Stats 4.03); n=14

Spring 2011 Total 4.59 (College Stats 4.08); n=12

Spring 2013 Total 4.59 (College Stats 4.07); n=15

ENTM 4014 Insect Morphology, 3 credit hours

The primary objective of this course was to provide a basic understanding of the comparative morphology of insects.

Fall 1997 Total 3.47 (College Stats 3.99); n=3

ENTM 7014 Insect Phylogeny and Morphology, 3 credit hours

Provide a basic understanding of the comparative morphology and phylogenetic history of insects. A common theme is the application of this knowledge to improve our understanding of the evolutionary relationships among major lineages of insects. The course was developed by Carlton to replace ENTM 4014, Insect Morphology.

Fall 1999 Total 4.46 (College Stats 4.09); n=4

Fall 2003 Total 4.33 (College Stats 4.12); n=6

ENTM 7030 Aquatic Entomology, co-instructed with Michael Kaller, 4 credit hours. Taxonomy of aquatic insects and application to freshwater ecology studies and water quality assessment.

Spring 2014 SPOTS pending

ENTM 7008. Special Topics.

Fall 2013, Insect Systematics Through the Ages, 2 credit hours. Survey course on the history of insect systematics and modern analytical methods; n=3

Spring 2014 SPOTS pending

ENTM 7008, Special Topics.

Fall 2000, Bizarre and Unusual Insect Life Histories, 1 credit hour. Unusual examples of insect adaptational strategies documented in classical and modern life history readings.

Total 4.68 (College Stats 4.06); n=6

ENTM 7008, Special Topics.

Fall 2008, Microcoleoptera larval chaetotaxy, 2 credit hours. Hands on experience with identification and special preparation techniques necessary for identifying larvae of minute Coleoptera.

Total 4.91 (College Stats 4.07); n=4

ENTM 7008, "Insect Paleontology" (Special Problem)

Fall 2009 Total 4.67 (College Stats 4.01); n=7

ENTM 7007. Entomology Seminar, 1 credit hour

Coordinate requirement for research seminars by graduate students during the latter part of their programs.

Fall 2009

Spring/Fall 2010

Spring/Fall 2011

Spring/Fall 2012

Spring/Fall 2013

BIOL 3999 Undergraduate Research

Fall 2003, 2 credit hours. Undergraduate research hours for Dmitry Chouljenko, conducting work on glassy-winged sharpshooter.

Spring 2004, 3 credit hours. Undergraduate research hours for Jonathon Wang, curatorial and database training, taxonomy of Cerambycidae.

Summer 2004, 3 credit hours. Undergraduate research hours for Loren Michener, curatorial and database training, taxonomy of scolytinae.

ENTM 8900, Special Topics.

Spring 1997, 1 credit hr. Tropical Insect Taxonomy (n=1).

Fall 2000, Spring 2001, 2 credit hrs./semester. Advanced Coleopterology (n=3).

Fall 2004, 3 credit hrs. Forensic Entomology/Diptera Taxonomy (n=1).

Fall 2005, 1 credit hr. Designing Field Studies for Biodiversity and Conservation (co-advised with D. Prowell) (n=7).

Spring 2006, 3 credit hrs. Advanced Coleopterology (n=2 graduate, 1 undergraduate taught as 3999).

University of Arkansas, Fayetteville

ENTO 5223 Immature Insects (1991), 3 credit hours

Emphasis was on the rapid recognition of larval forms of major families of insects. Developmental life histories were taught as an aid to identification and understanding the role of immature forms in agricultural systems.

ENTO 4023 Insect Identification (1991), 3 credit hours

This course was equivalent to ENTM 4005 above.

Student Advisory Activities

Currently as major advisor:

2 Masters candidates: Brittany Owens, systematics of Coleoptera, anticipated graduation May, 2015; Forest Huval (co-advised with Gregg Henderson), systematics of Blattodea, anticipated graduation May, 2016.

Other graduate advisory committee memberships (cumulative)

14 Ph.D. and 5 Masters

Previous Graduate Students, Awards, Honors, and Current Whereabouts

2013

Jong-Seok Park, Ph.D. Dissertation title: Taxonomy and systematics of New Zealand Faronitae (Coleoptera: Staphylinidae: Pselaphinae). Currently Research Associate, LSU AgCenter.

2011

Michael L. Ferro, Ph.D. Dissertation title: Ecology and systematics of Coleoptera in woody debris of eastern North American forests. Currently Research Associate, LSU AgCenter.

Matthew L. Gimmel, Ph.D. Dissertation title: Revision and reclassification of the genera of Phalacridae Coleoptera: Cucujoidea). Currently Postdoctoral Researcher, Palacký University, Czech Republic.

2008

Stephanie Gil, M.S. Thesis title: Succession of Coleoptera on freshly killed loblolly pine (*Pinus taeda* L.) and southern red oak (*Quercus falcata* Michaux) in Louisiana. Currently Research Associate, LSU AgCenter.

2005

Andrew Cline, Ph.D. Dissertation title: Revision of *Pocadius* (Coleoptera: Nitidulidae). Awards at LSU: Comstock Award, Entomological Society of America, SE Branch. Currently Senior Insect Biosystematist and Supervisor, California Department of Food and Agriculture.

Alexey Tishechkin, Ph.D. Dissertation title: Systematics of the histerid beetle genus *Mesynodites* (Coleoptera: Histeridae: Hetaeriinae). Currently Research Associate, LSU AgCenter.

2004

Erin Watson, Ph.D. Dissertation title: Faunal succession of necrophilous insects associated with high profile wildlife carcasses in Louisiana. Awards at LSU: LSU Dissertation Fellowship. Currently Associate Professor, Southeastern Louisiana University.

2002

Joyce Fassbender, M.S. Thesis title: Diversity of Forest Litter and Surface Inhabiting Spiders in Mixed Mesophytic Forest in Louisiana. Completed Ph.D., City University of New York, 2012. Currently Instructor, City University of New York.

2001

Debra Murray, Ph.D (Co-advised with D. Prowell). Dissertation title: Systematics of Neotropical Satyrine Butterflies (Nymphalidae: Satyrinae: Euptychina) Based on Larval Morphology and DNA Sequence Data and the Evolution of Life History Traits. Awards at LSU: Comstock Award, Entomological Society of America, SE Branch. Currently Research Assistant Professor, Duke University.

Training Workshops

2007. Biology teacher three-day workshop, Southern Appalachian Science Learning Center at Great Smoky Mountains National Park. Beetlemania: integrating the study of beetles into primary and secondary school curricula (co-organizer and co-instructor with V. L. Bayless).

2006. Southern Plant Diagnostic Network Coleoptera Workshop. Blacksburg, VA. Three day workshop on identification of beetles of agricultural and quarantine significance (as participant).

2005. Biology teacher one-day workshop, Tremont Institute at Great Smoky Mountains National Park. Integrating field-based beetle research into primary and secondary school curricula (as presenter).

1996-97. One day workshops, "Collecting Insects and Making an Insect Collection," to 30 high school science teachers. Baton Rouge, LA. These workshops provided instruction on collecting, processing and exhibiting insects as high school science projects and classroom assignments (as developer, coordinator, and presenter).

Other Instructional Activities and Teaching Contributions**Louisiana State University, Baton Rouge**

1997, 1999, 2001, 2007. Guest lecturer, Taxonomy of Immature Insects (ENTM 7005) (Coleoptera section, 4 lectures and labs).

University of Arkansas, Fayetteville

1995. Guest lecturer, Insect Taxonomy (Coleoptera section)

1980-89. Laboratory assistant, Insect Taxonomy and Immature Insects

Organization for Tropical Studies, Duke University

Systematics and Diversity of Coleoptera. Two week field/lecture course, La Selva Field Station, Costa Rica, June 2012 (n=9, graduate level) (co-instructor with V. L. Bayless and R. L. Leschen).

Ceiba Foundation, University of Wisconsin

Conservation Semester in Ecuador, Galapagos Island Unit. Guest faculty (two lectures), Galapagos Islands, March 2012 (n=21, undergraduate level) (co-instructor with V. L. Bayless).

Teaching Awards

2013. Sedberry Award for Outstanding Graduate Teaching, LSU School of Agriculture. \$1000.

2011. LSU Teaching Enhancement Award to attend Organization for Tropical Studies Assembly of Delegates Meeting, Palo Verde Field Station, Costa Rica. \$700.
2007. John Benjamin Holton Alumni Association Departmental Professorship in Agriculture.
- 2000-2001. Outstanding Professor Award. Given by Department of Entomology Club.

RESEARCH AND CREATIVE ACTIVITY

Book Chapters

2010

Sanders, N. J., R. R. Dunn, M. C. Fitzpatrick, C. E. Carlton, M. R. Pogue, C. R. Parker, and T. R. Simons. Diverse elevational diversity gradients in Great Smoky Mountains National Park, USA. *Pp. 75-88 in: Data Mining for Global Trends in Mountain Biodiversity* (E. M. Spehn and C. Körner, eds). CRC Press/Taylor and Francis, Boca Raton, FL.

2009

Jelinek, J., C. E. Carlton, A. R. Cline, and R. A. B. Leschen. Nitidulidae Latrielle. *Pp. 390-407 in: Handbook of Zoology, Volume IV, Arthropoda, Insecta, part 38* (R. Beutel and R. A. B. Leschen, eds.). DeGruyter, Inc., Berlin, Germany.

2003

Carlton, C. E. Revision of *Reichenbachia* of eastern North America (Coleoptera: Staphylinidae: Pselaphinae) [pp. 483-563 *in: Systematics of Coleoptera: Papers Celebrating the Retirement of Ivan Löbl* (R. Leschen and G. Cuccodoro, eds.). Associated Pub., Gainesville, FL.

Refereed Journal Articles

2013

Ferro, M. L., N. H. Nguyen, A. Tishechkin, J.-S. Park, V. L. Bayless, and C. E. Carlton. Coleoptera collected from rotting fishhook barrel cacti (*Ferocactus wislizeni* (Engelm.) Britton and Rose), with a review of Nearctic Coleoptera associated with succulent necrosis. *Coleop. Bull.*: in press.

Lord, N. P., C. E. Carlton, and R. A. B. Leschen. A new species of *Leptochromus* Motschulsky from Costa Rica (Staphylinidae: Scydmaeninae: Mastigitae: Clidicini), with notes on biology. *Coleop. Bull.*: in press.

Olatinwo, Rabi, J. Allison, J. Meeker, W. Johnson, D. Streett, C. Aime, and C. Carlton. 2013. Detection and identification of *Amylostereum areolatum* (Russulales: Amylostereaceae) in the mycangia of *Sirex nigricornis* (Hymenoptera: Siricidae) in central Louisiana. *Environ. Entomol.* 42: in press.

Park, J.-S., and C. E. Carlton. Revision of the New Zealand genus *Stenosagola* (Coleoptera: Staphylinidae: Pselaphinae: Faronitae). *Coleop. Bull.* 67: 225-259.

2012

Carlton, C. E. First Records of Troglotic Beetles from Arkansas: Two new species of *Speleochus* Park, and synonymy of *Subterrochus* Park with *Speleochus* (Staphylinidae: Pselaphinae: Bythinini). *Coleop. Bull.* 66: 166-176.

Ferro, M. L., M. L. Gimmel, K. E. Harms, and C. E. Carlton. Comparison of the Coleoptera communities in leaf litter and rotten wood in Great Smoky Mountains National Park, USA. *Insecta Mundi* 259: 1-31.

Ferro, M. L., M. L. Gimmel, K. E. Harms, and C. E. Carlton. Comparison of Coleoptera emergent from various decay classes of downed coarse woody debris in Great Smoky Mountains National Park, USA. *Insecta Mundi* 260: 1-80.

Ferro, M. L., M. L. Gimmel, K. E. Harms, and C. E. Carlton. Comparison of three collection techniques for capture of Coleoptera, with an emphasis on saproxylic species, in Great Smoky Mountains National Park, USA. *Insecta Mundi* 261: 1-58.

Gimmel, M. L., C. E. Carlton, and W. H. White. Polymorphism in *Languria taedata* LeConte, its occurrence in coastal Louisiana *Spartina* marshes, and clarification of some Motschulsky languriine types (Coleoptera: Erotylidae: Languriinae). *Zootaxa* 3237: 24-34.

Klepzig, K. D., M. L. Ferro, M. D. Ulyshen, M. L. Gimmel, J. B. Mahfouz, A. E. Tiarks, and C. E. Carlton. 2012. Effects of Small-Scale Dead Wood Additions on Beetles in Southeastern U.S. Pine Forests. *Forests* 3: 632-652.

Sokolov, I. M., and C. E. Carlton. Brazilian species of *Anillinus* and their relation to North American representatives of the genus (Coleoptera: Carabidae: Trechinae). *Coleop. Bull.*: in press.

2011

Carlton, C., and V. Bayless. A case of *Cnestus mutilatus* (Blandford) females damaging plastic fuel storage containers in Louisiana (Curculionidae: Scolytinae: Xyleborini). *Coleop. Bulletin* 65: 290-291.

Ferro, M. L., and C. E. Carlton. A practical emergence chamber for collecting Coleoptera from rotting wood, with a review of emergence chamber designs to collect saproxylic insects. *Coleop. Bull.* 65: 115-124.

Park, J.-S., and C. E. Carlton. Revision of the New Zealand Genus *Exeirarthra* (Coleoptera: Staphylinidae: Pselaphinae: Faronitae). *Ann. Entomol. Soc. Amer.* 104: 1170-1182.

2010

Carlton, C. E. A new species of *Reichenbachia* from Great Smoky Mountains National Park, U.S.A. *Coleop. Bull.* 64: 39-41.

Ferro, M. L., and C. E. Carlton. Fifteen new species of *Sonoma* Casey from the eastern United States and a description of the male of *Sonoma tolulae* (LeConte) (Coleoptera: Staphylinidae: Pselaphinae). *Insecta Mundi* 137: 1-44.

Hummel, N. A., T. Hardy, T. E. Reagan, D. Pollet, C. Carlton, M. J. Stout, J. M. Beuzelin, W. Akbar, and W. White. Monitoring and first discovery of the Mexican rice borer *Eoreuma loftini* (Lepidoptera: Crambidae) in Louisiana. *Florida Entomol.* 93: 123-124.

Park, J.-S., C. E. Carlton, and M. L. Ferro. Review of *Leptusa* Kraatz (Coleoptera: Staphylinidae: Aleocharinae) from Great Smoky Mountains National Park, U.S.A., with description of four new species. *Zootaxa* 2662: 1-27.

Sokolov, I. M., and C. E. Carlton. New species of *Anillinus* Casey (Carabidae: Trechinae: Bembidiini) from the Southern Appalachians and phylogeography of the *A. loweae* species group. *Zootaxa* 2502: 1-23.

Sokolova, Y. Y., I. M. Sokolov, and C. E. Carlton. New Microsporidia Parasitizing Bark Lice (Insecta: Psocoptera). *J. Invert. Path.* 104: 186-194

Sokolova, J. Y., I. M. Sokolov, and C. E. Carlton. Identification of *Nosema bombi* Fantham and Porter 1914 (Microsporidia) in *Bombus impatiens* and *B. sandersoni* from Great Smoky Mountains National Park (USA). *J. Invert. Path.* 103: 71-73.

2009

- Akbar, W., C. E. Carlton, and T. E. Reagan. *Diomus terminatus* (Say) (Coleoptera: Coccinellidae) life cycle, larval morphology, and potential as a biological control agent of the sugarcane aphid, *Melanaphis sacchari* Zehntner. *Ann. Entomol. Soc. Amer.* 102: 96-103.
- Carlton, C. E., and R. A. B. Leschen. A new species and new North American record of *Pseudotriphyllus* (Coleoptera: Mycetophagidae). *Coleop. Bull.* 63:24-30.
- Carlton, C. E., and L. E. Watrous. First description of larvae in the tribe Mayetini: the larva of *Mayetia pearsei* (Coleoptera: Staphylinidae: Pselaphinae). *Ann. Entomol. Soc. Amer.* 102: 406-412.
- Ferro, M. L., Gimmel, M. L., and C. E. Carlton. The beetle community of small oak twigs in Louisiana with a review of literature featuring Coleoptera from fine woody debris. *Coleop. Bull.* 68: 239-263..
- Robison, H. W., C. T. McAllister, C. E. Carlton, and G. Tucker. The Arkansas endemic biota: an update with additions and exclusion. *Proc. Ark. Acad. Sci.* 62: 85-94.
- 2008
- Carlton, C. E. Eight new species of *Arianops* Brendel from southeastern United States with an updated key and notes on additional species (Coleoptera: Staphylinidae: Pselaphinae). *Coleop. Bull.* 62: 297-32.
- Carlton, C. E., and R. A. B. Leschen. Description of the larva of *Pselaphophus atriventris* (Westwood) (Staphylinidae: Pselaphinae: Pselaphini) with notes on its life history and a list of described pselaphine immature stages. *Ann. Entomol. Soc. Amer.* 101: 13-19.
- Gimmel, M. L., and C. E. Carlton. The identity of *Languria femoralis* Motschulsky (Erotylidae: Languriinae). *Zootaxa* 1821: 67-68.
- Radke, M. G., C. E. Carlton, and G. B. Williamson. A Dung Beetle Assemblage in an Urban Park in Louisiana. *Southeastern Naturalist* 7: 101-110.
- Sokolov, I. M., and C. E. Carlton. Two new species of blind, forest litter-inhabiting ground beetles from the subtribe Anillina (Carabidae: Trechinae: Bembidiini) from eastern U.S.A. *Zootaxa* 1740: 37-44.
- 2007
- Carlton, C. E., and V. M. Bayless. Documenting beetle diversity in Great Smoky Mountains National Park; beyond the halfway point! (Arthropoda: Insecta: Coleoptera). *Southeastern Naturalist Special Publication* 1: 183-192.
- Carlton, C. E., and R. A. B. Leschen. Descriptions of *Soronia* (Coleoptera: Nitidulidae) larvae of New Zealand with comments on life history and taxonomy. *New Zealand J. Zool.* 30: 41-51.
- Reay-Jones, F. P. F., L. T. Wilson, M. O. Way, C. E. Carlton and T. E. Reagan. Movement of the Mexican rice borer through the Texas rice belt. *J. Econ. Entomol.* 100: 54-60.
- Sokolov, I. M., Y. Y. Sokolova, and C. E. Carlton. New species of *Anillinus casey* (Carabidae: Trechinae: Bembidiini) from Great Smoky Mountains National Park, U.S.A. and phylogeography of the *A. langdoni* species group. *Zootaxa* 1542: 1-20.
- 2005
- Bayless, V. M., and C. E. Carlton. Sifting Litter in the Great Smoky Mountains. *Southeastern Biol.* 52: 435-436.

McAllister, C. T., and C. E. Carlton. Second record of the dipluran, *Occasjapyx carltoni* Allen, 1988 (Japygidae) from Arkansas. Proc. Ark. Acad. Sci. 59: 213.

Watson, E. J., and C. E. Carlton. Insect succession and decomposition of wildlife carcasses during fall and winter in Louisiana. J. Med. Entomol. 42: 193-203.

Watson, E.J. and C.E. Carlton. Succession of forensically important Silphidae species on large carcasses (Coleoptera). Southeastern Naturalist 4: 335-346.

2004

Carlton, C. E., M. Dean, and A. K. Tishechkin. Diversity of two beetle taxa at a Western Amazonian locality (Coleoptera: Histeridae; Staphylinidae, Pselaphinae). Coleop. Bull. 58: 163-170.

Carlton, C. E., and R. S. Anderson. Occurrence of the Introduced Weevil *Myosides seriehispidus* Roelofs in Great Smoky Mountains National Park (Coleoptera: Curculionidae). Coleop. Bull. 58: 343.

Cline, A. R., and C. E. Carlton. Two new species of *Epuraea* (*Orthoepus*) from Mexico (Coleoptera: Nitidulidae). Coleop. Bull. 58: 261-270.

Cline, A. R., and C. E. Carlton. Three new species of *Lasiodactylus* Perty from the Neotropics (Coleoptera: Nitidulidae: Nitidulinae). Coleop. Bull. 58: 355-368.

Leschen, R. A. B., and C. E. Carlton. A New Tribe, Genus and Species of Nitidulid Beetle (Coleoptera: Nitidulidae: Nitidulinae) from Bolivia. Coleop. Bull. 58: 443-451.

Sokolov, I. M., C. E. Carlton, and J. F. Cornell. Review of *Anillinus* with descriptions of 13 new species and a key to soil and litter species (Coleoptera: Trechinae: Bembidiini). Coleop. Bull. 58: 185-233.

2003

Cox, R. T., and C. E. Carlton. A comment on gene introgression versus en masse cycle switching in the evolution of 13-year and 17-year life cycles in periodical cicadas. Evolution 57: 428-432.

Van Zandt, P. A., V. R. Townsend, Jr., C. E. Carlton, M. Blackwell, and S. Mopper. *Loberus impressus* (Coleoptera, Erotylidae) fungal associations and presence in the seed capsules of *Iris hexagona*. Coleop. Bull. 57: 281-288.

Watson, E. J., and C. E. Carlton. Spring Succession of Necrophilus Insects of Wildlife Carcasses in Louisiana. J. Med. Entomol. 40: 338-347.

2002

Bossart, J. L., and C. E. Carlton. Insect Conservation in America: status and perspectives. Amer. Entomol. 48(2): 82-92.

2001

Carlton, C. E., and R. A. B. Leschen. Species in sympatry: *Pselaphotheseus* of Campbell Island (Coleoptera: Staphylinidae: Pselaphinae). New Zealand J. Zool. 28: 387-393.

2000

Carlton, C. E., V. R. Townsend, Jr., P. A. Van Zandt, and S. Mopper. Description of the larva of *Loberus impressus* LeConte with notes on its natural history (Coleoptera: Languriidae: Xenoscelinae). Ann. Entomol. Soc. Amer. 93: 356-361.

Leschen, R. A. B., and C. E. Carlton. A new species of *Micropsephodes* from southern United States (Endomychidae: Anamorphinae). *Coleop. Bull.* 54: 232-238.

1999

Landau, D., D. P. Prowell, and C. E. Carlton. Intensive versus long-term sampling to assess lepidopteran diversity in a southern mixed mesophytic forest. *Ann. Entomol. Soc. Amer.* 92: 435-441.

1998

Carlton, C. E., and H. W. Robison. Diversity of litter-dwelling beetles in deciduous forests of the Ouachita highlands of Arkansas (Insecta: Coleoptera). *Biodiv. and Cons.* 7: 1589-1605.

Carlton, C. E., and F. Rothwein. The endangered American burying beetle (Coleoptera: Silphidae: *Nicrophorus americanus* at the edge of its range in Arkansas. *Coleop. Bull.* 52: 179-185.

Cox, R. T., and C. E. Carlton. A commentary on prime numbers and periodical cicadas. *Amer. Nat.* 152: 162-164.

Meek, C. L., C. Puskarich-May, and C. E. Carlton. New state record for the hairy maggot blow fly *Chrysomya rufifacies* (Macquart). *Southwestern Entomol.* 23: 373-375.

Muegge, M. A., and C. E. Carlton. New records of Japygoidea from Louisiana with notes on behavior (Hexapoda: Diplura). *Entomol. News* 109: 177-182.

Triapitsyn, S. V., R. F. Mizell, III, J. L. Bossart, and C. E. Carlton. Egg Parasitoids of *Homalodisca coagulata* (Homoptera: Cicadellidae). *Florida Entomol.* 81: 241-243.

1997

Robison, H. W., G. W. Byers, and C. E. Carlton. An annotated checklist of the Mecoptera (Scorpionflies) of Arkansas. *Entomol. News.* 108: 313-317.

1996

Carlton, C. E., and Lori Spencer Nobles. Distribution of *Speyeria diana* in the highlands of Arkansas, Missouri and Oklahoma with comments on conservation. *Entomol. News.* 107: 213-219.

Carlton, C. E., and H. W. Robison. Notes on *Mayetia pearsei* Schuster, Marsh and Park with a revised key to eastern *Mayetia* species (Staphylinidae: Pselaphinae). *Coleop. Bull.* 50: 244-250.

Carlton, C. E., and R. A. B. Leschen. New species, distributional notes and systematics of *Eutrichites* (Coleoptera: Staphylinidae: Pselaphinae). *Trans. Amer. Entomol. Soc.* 122: 161-173.

Carlton, C. E., R. A. B. Leschen, and P. L. Kovarik. Adult blow fly predation in a Chilean *Euspilotus* (Coleoptera: Histeridae). *Coleop. Bull.* 50: 154.

Dorris, P. R., H. W. Robison, and C. E. Carlton. Spiders (Arthropoda: Aranea) from deciduous forest litter of the Ouachita Highlands. *Proc. Ark. Acad. Sci.* 49: 45-48.

Leschen, R. A. B., and C. E. Carlton. Slime production in mycophagous Nitidulidae (Coleoptera) including a new species of *Eusphaerius*. *J. of Nat. Hist.* 30: 1861-1873.

C. S. Martin, C. E. Carlton, and C. L. Meek. New distribution record for the hairy maggot blow fly *Chrysomya rufifacies*. *Southwestern Entomol.* 21: 477-478.

1995

Carlton, C. E. A new species of *Pseudactium* from Arkansas (Coleoptera: Staphylinidae: Pselaphinae). Coleop. Bull. 49: 170-173.

Carlton, C. E., and J. L. Lancaster. Arkansas horse and deerflies (Insecta: Diptera: Tabanidae). Ark. Agri. Exp. Sta. Bull. Ser. 27 pp.

1994

Carlton, C. E., and D. S. Chandler. Revision of the nearctic genus *Pseudactium* (Coleoptera: Pselaphidae: Euplectinae). Coleop. Bull. 48: 171-190.

Carlton, C. E., and T. J. Kring. *Melitara prodenialis* Walker on prickly pear in Arkansas. Southwestern Entomol. 19: 23-31.

Phillips, E. C., R. V. Kilambi, and C. E. Carlton. Life history and secondary production of *Ephoron album* (Say) (Ephemeroptera: Polymitarcidae) in the Illinois River, Arkansas. J. Kansas Entomol. Soc.: 67: 242-247.

1993

Leschen, R. A. B., and C. E. Carlton. Three new species and a new record of neotropical *Pocadius* Erichson (Coleoptera: Nitidulidae). Trop. Biol. 7: 209-216.

Leschen, R. A. B., and C. E. Carlton. Debris cloaking in Endomychidae: A new species from Peru. J. Zool. (Linnean Soc.) 109: 35-51.

Springer, T. L., and C. E. Carlton. Dark-winged fungus gnat (Diptera: Sciaridae) ovipositional preference for *Trifolium* species. J. Econ. Entomol. 86: 1420-1423.

Hopkins, J. D., C. D. Steelman, and C. E. Carlton. Internal reproductive system of the adult male lesser mealworm *Alphitobius diaperinus* (Coleoptera: Tenebrionidae). J. Kansas Entomol. Soc. 66: 446-450.

1992

Hopkins, J. D., C. D. Steelman, and C. E. Carlton. Anatomy of the adult female lesser mealworm, *Alphitobius diaperinus* (Coleoptera: Tenebrionidae) reproductive system. J. Kansas Entomol. Soc. 65: 299-307.

1991

Cox, R. T., and C. E. Carlton. Evidence for genetic dominance in 13-year periodical cicadas (Homoptera: Cicadidae: *Magicicada* spp.). J. Amer. Midl. Nat. 125: 63-74.

1990

Carlton, C. E., and R. T. Cox. A new species of *Arianops* from central Arkansas and the biogeographic implications of the Interior Highland *Arianops* species (Coleoptera: Pselaphidae). Coleop. Bull. 44: 365-371.

Carlton, C. E. Biogeographic affinities of pselaphid beetle genera of the Eastern United States. Florida Entomol. 73: 570-579.

1989

Allen, R. T., and C. E. Carlton. New records of Schizopteridae and Ceratocombidae (Hemiptera: Dipsocoroidea). J. Kansas Entomol. Soc. 62: 125-126.

Carlton, C. E. Revision of the genus *Eutrichites* (Coleoptera: Pselaphidae). Coleop. Bull. 43: 105-119.

Carlton, C. E. Aedeagal isomerism in *Actizona chuskae* Chandler (Coleoptera: Pselaphidae) and a new locality record. *Coleop. Bull.* 43: 57-58.

Carlton, C. E., and R. T. Allen. A new species of *Arianops* (Coleoptera: Pselaphidae) and the rediscovery of *Arianops sandersoni* Barr. *Coleop. Bull.* 43: 59-67.

Carlton, C. E., and E. H. Schmitz. Anatomy of the extrinsic gut musculature of *Gammarus minus* (Crustacea: Amphipoda). *J. of Morphol.* 200: 87-92.

1988

Allen, R. T., and C. E. Carlton. Two new species of *Scaphinotus* (Coleoptera: Carabidae), with comments on other Arkansas species. *J. New York Entomol. Soc.* 96: 129-139.

Allen, R. T., C. E. Carlton, and S. A. Tedder. A new species of *Acalypta* (Hemiptera: Tingidae). *J. Kansas Entomol. Soc.* 61: 126-130.

Carlton, C. E. *Dienerella filum* (Aube), a potential pest of air conditioning systems (Coleoptera: Lathridiidae). *Coleop. Bull.* 42: 263-264.

Carlton, C. E., and D. G. Bassi. *Oligotoma nigra* (Embiidina: Oligotomidae), an introduced species new to Arkansas. *J. Kansas Entomol. Soc.* 61: 352-353.

Cox, R. T., and C. E. Carlton. Paleoclimatic influences in the evolution of periodical cicadas (Homoptera: Cicadidae: *Magicicada* spp.). *J. Amer. Midl. Nat.* 120: 183-193.

Leschen, R. A. B., and C. E. Carlton. Immature stages of *Endomychus biguttatus* Say (Coleoptera: Endomychidae), with observations on the alimentary canal. *J. Kansas Entomol. Soc.* 61: 321-327.

1986

Carlton, C. E., and R. T. Allen. Revision of the genus *Euboarhexius* (Coleoptera: Pselaphidae). *Coleop. Bull.* 40: 285-296.

1983

Carlton, C. E. Revision of the genus *Conoplectus* Brendel (Coleoptera: Pselaphidae). *Coleop. Bull.* 37: 55-80.

Non-refereed Articles and other Contributions

2013

Carlton, C. E., and B. Adams. The search for an alternative commercial cricket for the U. S. industry. *Louisiana Agriculture* 56: online at: <http://www.lsuagcenter.com/en/communications/publications/agmag/Archive/2013/Summer/The-Search-for-an-Alternative-Commercial-Cricket-for-the-US-Industry.htm>

2012

White, W. B., and C. E. Carlton. Rootstock weevils: out of sight, out of mind, or emerging pests? *Sugar Journal*, June, 2012: 28-29.

2009

Price, P. P., C. E. Carlton, and B. R. Leonard. Research Note: A New Pest of Louisiana Soybean, the Pea Leaf Weevil. *Louisiana Agriculture*: online publication.

2008

Carlton, C. E. Musings on sabbaticals and beach scrabblers. The Entomological Society of New Zealand Newsletter. January 2008: 2-3.

2007

Carlton, C. E. Book Review. Coleoptera, Beetles. Volume 1: Morphology and Systematics (Archostemata, Adephaga, Myxophaga, Polyphaga partim). Handbook of Zoology. Insecta. Part 38 (Beutel, R. D., and R. A. B. Leschen, eds.). Coleop. Bulletin 61: 492-493.

Carlton, C. E., V. L. Bayless, and D. Pollet. Rapid response arthropod diagnostic services. Louisiana Agriculture 50, no. 4: 24-25.

2005

Carlton, C. E., D. S. Chandler, R. A. B. Leschen, E. G. Riley, and P. E. Skelley. Obituary and Dedication. Karl Heinz Stephan 1931-2005. Coleop. Bull. 59: 277-283.

Carlton, C. E. Book Review. American Beetles Volume I. Archostemata, Myxophaga, Polyphaga: Staphyliniformia. American Beetles Volume II. Polyphaga: Scarabaeoidea through Curculionoidea. Coleop. Bull. 59: 154-156.

2004

Nash, S. Desperately Seeking Charisma: Improving the Status of Invertebrates. Bioscience 54: 487-494 (published color photograph, p. 488).

2002

Carlton, C. E. Mining Beetle Diversity in the Smokies. Southeastern Biology 49: 27-28.

2001

Carlton, C. E. Coleopterists Society Monographs, Patricia Vaurie Memoir Series. Coleop. Bull. 55: 528-529.

1994

Carlton, C. E., J. Bollinger, and L. C. Thompson. Arthropod biodiversity-sampling protocol development. Proceedings of the Symposium on Ecosystem Management Research in the Ouachita Mountains: Pretreatment Conditions and Preliminary Findings. pp 144-153.

Mangini, A., C. Carlton, R. W. Perry, and J. Hanula. Seed, cone, regeneration, and defoliating insects in forest ecosystem management. Proceedings of the Symposium on Ecosystem Management Research in the Ouachita Mountains: Pretreatment Conditions and Preliminary Findings. pp 154-161.

1987

Carlton, C. E. Identification of Arkansas fire ant (Hymenoptera: Formicidae: *Solenopsis* spp.) workers. Ark. Agri. Exp. Stat. Rep. Ser. 301. 12 pp.

1986

Carlton, C. E. Fossil collecting in Arkansas. Part 2. The Arkansas Naturalist 4, no. 4, pp. 7-26.

1985

Carlton, C. E. Arkansas museums. The Arkansas Naturalist 3, no. 4, pp. 4-14.

Carlton, C. E. Fossil collecting in Arkansas. Part 1. The Arkansas Naturalist 3, no. 8, pp. 1-16.

1984

Carlton, C. E. Denizens of the duff. The Arkansas Naturalist 2, no. 1, pp. 6-15.

Carlton, C. E. Checklist of the longhorn beetles of Arkansas (Coleoptera: Cerambycidae). Ark. Acad. Sci. Ark. Biota Survey, Checklist No. 40. 5 pp.

Academic Publications Edited

2010-present. Subject Editor, Entomological Research, published by the Entomological Society of Korea.

2005

Aalbu, R. L., F. G. Andrews, and D. A. Pollock. Revision of Western Hemisphere Dacoderinae with a Phylogenetic Analysis of World Taxa (Coleoptera: Salpingidae). Coleopterists Society Monographs Patricia Vaurie Series No. 3. 42 pp.

Leschen, R. A. B., and I. Löbl. Phylogeny and Classification of Scaphisomatini (Staphylinidae: Scaphidiinae) with Notes on Mycophagy, Termitophily, and Functional Morphology. Coleopterists Society Monographs Patricia Vaurie Series No. 4. 62 pp.

2004

Clark, S. M., D. G. LeDoux, T. N. Seeno, E. G. Riley, A. J. Gilbert, and J. S. Sullivan. Host Plants of Leaf Beetle Species Occurring in the United States and Canada (Coleoptera: Megapodidae, Orsodacnidae, Chrysomelidae, excluding Bruchinae). The Coleopterists Society Special Publication No. 2. 476 pp.

2003

Paucar-Cabrera, A. Systematics and Phylogeny of the Genus *Epectinaspis* Blanchard (Coleoptera: Scarabaeidae: Rutelinae) and Description of a New Genus of Anomalini from Mexico. Coleopterists Society Monographs Patricia Vaurie Series No. 2. 60 pp.

Riley, E. G., S. Clark, and T. Seeno. Catalog of the Leaf Beetles of America North of Mexico. The Coleopterists Society Special Publication No. 1. 290 pp.+search and sort CD.

2002

Cook, J. Revision of the Neotropical Genus *Cryptocanthon* Balthasar (Coleoptera: Scarabaeidae: Scarabaeinae). Coleopterists Society Monographs Patricia Vaurie Series No. 1. 93 pp.

1999-2005

Coleopterists Bulletin. Managing Editor for volumes 53(4), 96 pp; 54 (1-4), 552 pp; 55 (1-4), 528 pp.; 56 (1-4), 608 pp.; 57 (1-4), 510 pp.; 58 (1-4) 680 pp; 59 (1-3) 405 pp.

Electronic Publications

2007

Foil, L. D., C. E. Carlton, and W. L. Kramer. Chagas disease in Louisiana. LSU AgCenter online publication. <http://www.lsuagcenter.com/en/environment/insects/Chagas+Disease+in+Louisiana.htm>

2004

Carlton, C. E. Current Status of Nitidulid Beetle Larval Taxonomy. No 6 on CD Rom, Phylogeny of the Cucujoidea (F. W. Shockley, producer). University of Georgia, Dept. of Entomology.

2001-present

Carlton, C. E. Great Smoky Mountain National Park Coleoptera ATBI TWIG Website. [Http://entomology.lsu.edu/lam/smokybeetles.htm](http://entomology.lsu.edu/lam/smokybeetles.htm)

1998-present

Carlton, C. E. The Louisiana State Arthropod Museum Website. [Http:// entomology.lsu.edu /lam/index.htm](http://entomology.lsu.edu/lam/index.htm)

1998-2007

Management of the Department of Entomology Website. [Http://www.lsu.edu/departments.entomology.htm](http://www.lsu.edu/departments.entomology.htm)

2001-2005

Carlton, C. E. Coleopterists Bulletin Manuscript Preparation Guidelines. [Http://www.coleopsoc.org/coleguid.shtml](http://www.coleopsoc.org/coleguid.shtml)

Conference Presentations, Symposia, and Seminars2013

Carlton, C. E., and V. L. Bayless. Organization for Tropical Studies specialty course in Coleoptera in Costa Rica and resulting new discoveries. Poster presentation. Southeastern Branch Meeting of the Entomological Society of America, Baton Rouge, Louisiana.

Ferro, M. L., and C. E. Carlton. Several new species of *Sonoma* and a phylogenetic analysis of the genus (Coleoptera: Staphylinidae: Pselaphinae). Poster presentation. Southeastern Branch Meeting of the Entomological Society of America, Baton Rouge, Louisiana.

Park, J.-S., and C. E. Carlton. A new genus of pselaphine staphylinid beetles from New Zealand (Coleoptera: Staphylinidae: Pselaphinae). Poster presentation. Southeastern Branch Meeting of the Entomological Society of America, Baton Rouge, Louisiana.

Reily, B. M. L. Ferro, P. Newell, and C. E. Carlton. Canopy Coleoptera of two Louisiana ecoregions. Undergraduate poster presentation. Southeastern Branch Meeting of the Entomological Society of America, Baton Rouge, Louisiana.

Owens, B. E., C. E. Carlton, and M. L. Ferro. Berlese vs Winkler: assessing the relative effectiveness of two methods used to extract arthropods from organic litter samples. Poster presentation. Southeastern Branch Meeting of the Entomological Society of America, Baton Rouge, Louisiana.

2012

Bayless, V. L., and C. E. Carlton. Coleoptera of the Smokies: barking up a dead tree and the lessons learned. Invited oral presentation. Annual Meeting of the Entomological Society of America, Knoxville, Tennessee.

Carlton, C. E. Celebrating Ten Years of Coleoptera Taxonomy and Ecology Research in Great Smoky Mountains National Park. Distinguished Lecture Series, Department of Entomology, University of Arkansas, Fayetteville.

Park, J.-S., and C. E. Carlton. Molecular phylogeny of the New Zealand genus *Sagola* Sharp (Coleoptera: Staphylinidae: Pselaphinae). Poster presentation. Annual Meeting of the Entomological Society of America, Knoxville, Tennessee.

2011

Carlton, C. E. Celebrating Ten Years of Coleoptera Taxonomy and Ecology Research in Great Smoky Mountains National Park. Departmental Seminar, Department of Biological Sciences, Southeastern Louisiana University, Hammond, LA.

Ferro, M. L., C. E. Carlton, and 12 coauthors. Development of an online introductory entomology course—a cooperative effort between Bugwood, NPDP, and Land Grant university partners. Invited oral presentation. Annual Meeting of the Entomological Society of America, Reno, Nevada.

Ferro, M. L., and C. E. Carlton. Diversity of saproxylic Coleoptera in Great Smoky Mountains National Park. Oral presentation. Annual Meeting of the Entomological Society of America, Reno, Nevada.

Park, J.-S., and C. E. Carlton. Revision of the New Zealand Genus *Stenosagola* (Coleoptera: Staphylinidae: Pselaphinae: Faronitae). Poster presentation. Annual Meeting of the Entomological Society of America, Reno, Nevada.

2010

Ferro, M. L. and C. E. Carlton. A practical emergence chamber for collecting Coleoptera from rotting wood, with a review of emergence chamber designs to collect saproxylic insects. Poster presentation. Annual Meeting of the Entomological Society of America, San Diego, California.

2009

Ferro, M. L. and C. E. Carlton. The quest to discover topotypical males of *Sonoma tolulae* (LeConte) (Staphylinidae: Pselaphinae): A little brown beetle story of intrigue, taxonomy, and ecology. Oral presentation. Annual Meeting of the Entomological Society of America, Indianapolis, Indiana.

Park, J. S., M. L. Ferro and C. E. Carlton. New species of *Leptusa* Kraatz (Coleoptera: Staphylinidae: Aleocharinae) from Great Smoky Mountains National Park, U.S.A. Poster presentation. Annual Meeting of the Entomological Society of America, Indianapolis, Indiana.

2008

Carlton, C. E. Seven years of collecting beetles in Great Smoky Mountains National Park: are We Finished Yet? Keynote address, Coleopterists Society Annual Meeting, Entomological Society of America Annual Meeting, Reno, NV.

Ferro, M. L. and C. E. Carlton. An (almost) empty room in a packed house: Coarse woody debris class V islands of low diversity in a diverse leaf litter sea in GSMNP. Poster presentation. Annual Meeting of the Entomological Society of America, Reno, Nevada.

Ferro, M. L. and C. E. Carlton. Boring beetles: Estimating native saproxylic beetle richness throughout the Continental U.S. using Cerambycidae and Scolytinae. Poster presentation. Southeastern Branch Meeting of the Entomological Society of America, Jacksonville, Florida.

2007

Ferro, M. L., M. L. Gimmel, and C. E. Carlton. Fine beetles: diversity of twig bundles and efficacy of using them as a collecting technique. Poster presentation. Entomological Society of America Annual Meeting, San Diego, CA.

2006

Bayless, V. M., and C. E. Carlton. The Louisiana State Arthropod Museum. Invited presentation. Entomological Collections Network Annual Meeting, Indianapolis, IN.

Carlton, C. E. Beetle discoveries and diversity in Great Smoky Mountains National Park. Symposium presentation. Entomological Society of America Annual Meeting, Indianapolis, IN.

Carlton, C. E., and V. M. Bayless. Documenting beetle diversity in Great Smoky Mountains National Park; beyond the halfway point. Invited presentation. Association of Southeastern Biologists Annual Conference, Gatlinburg, TN.

Ferro, M. L., and C. E. Carlton. Saproxylic beetles in the rough. Poster presentation. Entomological Society of America Annual Meeting, Indianapolis, IN.

Gimmel, M. L., and C. E. Carlton. Confronting the taxonomic impediment from behind: making old coleopteran literature freely available. Poster presentation. Entomological Society of America Annual Meeting, Indianapolis, IN.

Ratcliffe, B. C., Carlton, C. E. (co-organizers). Notes from the Field: Biodiversity of Coleoptera. A Symposium Honoring the Memory and Contributions of Steve Ashe. Parts 1 and 2. Section A Symposia. Entomological Society of America Annual Meeting, Indianapolis, IN.

2005

Carlton, C. E. Pselaphine Staphylinids of Great Smoky Mountains National Park (Coleoptera: Staphylinidae: Pselaphinae). Poster presentation. Discover Life in American Annual Conference, Gatlinburg, TN and Entomological Society of America Annual Meeting, Ft. Lauderdale, FL.

Carlton, C. E., and V. M. Bayless. Coleoptera of the Great Smoky Mountains National Park. Poster presentation. Discover Life in American Annual Conference, Gatlinburg, TN and Entomological Society of America Annual Meeting, Ft. Lauderdale, FL.

Cline, A. R., and C. E. Carlton. The Sap Beetles of the Great Smoky Mountains National Park (Coleoptera: Nitidulidae). Poster presentation. Discover Life in American Annual Conference, Gatlinburg, TN and Entomological Society of America Annual Meeting, Ft. Lauderdale, FL.

Ferro, M., C. E. Carlton, and K. Klepzig. Effect of Loblolly Pine Coarse Woody Debris (CWD) on Coleoptera Species Richness. Poster presentation. Entomological Society of America Annual Meeting, Ft. Lauderdale, FL.

Gimmel, M., C. E. Carlton, and A. J. Mayor. Scirtidae of Great Smoky Mountains National Park (Coleoptera: Scirtidae). Poster presentation. Discover Life in American Annual Conference, Gatlinburg, TN and Entomological Society of America Annual Meeting, Ft. Lauderdale, FL.

McAllister, C. T., and C. E. Carlton. Second Record of the Dipluran, *Occasjapyx carltoni* Allen, 1988 (Insecta: Japygidae), from Arkansas. Arkansas Academy of Sciences Annual Meeting, Conway, AR.

Reay-Jones, P. F., M. O. Way, L. T. Wilson, T. E. Reagan, and C. E. Carlton. Monitoring the Movement of the Mexican Rice Borer (Lepidoptera: Crambidae) with Pheromone Baited Traps. Oral presentation. Entomological Society of America Annual Meeting, Ft. Lauderdale, FL.

Tindall, K., F. Huang, C. E. Carlton, and V. M. Bayless. *Moodna bisinuella* Hampson: A New State Record for Louisiana and a Potential Threat to Corn. Display presentation. Entomological Society of America Annual Meeting, Ft. Lauderdale, FL.

2004

Cline, A. R., and C. E. Carlton. Evolution of the Egg Laying Apparatus in the Pocadiini (Coleoptera: Nitidulidae). Display presentation. Entomological Society of America Annual Meeting, Salt Lake City, UT.

Carlton, C. E. The Great Smoky Mountain All Taxa Biodiversity Inventory: Combining Science, Education, and Fun. Weekly Seminar Series, LSU Museum of Natural Science, Baton Rouge, LA, April 2004.

2003

Carlton, C. E. Coleoptera Twig Status Report: Year 3. Annual Conference, Discover Life in America, Gatlinburg, TN.

Carlton, C. E. Current Status of Nitidulid Beetle Larval Taxonomy. Invited presentation. Section A Symposium, Annual Meeting, Entomological Society of America, Cincinnati, OH.

Cline, A. R., C. E. Carlton, and J. L. McHugh (coorganizers). Phylogeny of the Cucujoidea I and II. Section A Symposia, Annual Meeting, Entomological Society of America, Cincinnati, OH.

2002

Carlton, C. E. Coleoptera Twig Status Report: Year 2. Annual Conference, Discover Life in America, Gatlinburg, TN.

Carlton, C. E. Diversity of forest litter inhabiting Coleoptera and other wonders. Departmental Seminar, Department of Entomology, Louisiana State University, Baton Rouge, LA.

Reagan, T. E., M. O. Way, C. E. Carlton, and F. R. Posey. Update on Mexican Rice Borer Research for the Rice and Sugar Cane Industries of Texas and Louisiana. Display presentation. Entomological Society of America Annual Meeting, Fort Lauderdale, FL.

2001

Carlton, C. E. Status of the Coleoptera TWIG of the Great Smoky Mountain National Park ATBI. Annual Conference, Discover Life in America, Gatlinburg, TN.

Carlton, C. E., and J. L. Bossart. The prejudice and promise of insect conservation research in the United States. Southeastern Branch, Entomological Society of America, Augusta, GA.

Carlton, C. E. Introduction to pselaphidology and the world of litter arthropods. Departmental Seminar, Department of Biological Sciences, Louisiana State University, Baton Rouge, LA.

2000

Carlton, C. E. Phylogenetic relationships among major lineages of pselaphine staphylinids (Coleoptera: Staphylinidae). Invited presentation. Section A Symposium, Annual Meeting, Entomological Society of America, Montreal, Canada.

Carlton, C. E., M. K. Dean, and A. K. Tishechkin. Diversity of two beetle taxa at a western Amazonian locality. Poster presentation. XXI International Congress of Entomology, Iquassu Falls, Brazil.

Reagan, T. E., C. E. Carlton, and F. R. Posey. The Mexican rice borer threat to sugarcane and rice in Texas and western Louisiana. Poster presentation. Entomological Society of America, Montreal, Canada and Southwestern Branch Meeting, ESA, Austin, TX.

1999

Carlton, C. E. Diversity and biogeographic significance of endemic and disjunct beetles of the Ouachita Mountains. Invited presentation. Symposium on Ecosystem Management Research in the Ouachita and Ozark Mountains. Hot Springs, AR.

Carlton, C. E. The public service role of Land Grant University-based entomology museums. Student sponsored symposium presentation. Annual Meeting, Southeastern Branch, Entomological Society of America. Destin, FL.

Carlton, C. E. Diversity and biogeography of forest litter Coleoptera in the Southeastern United States. Departmental seminar, Department of Biology, Southwestern Louisiana State University, Lafayette, LA.

1998

Carlton, C. E. What arcane taxa tell us about the way the world ought to be. Charles Lincoln Distinguished Lecture Series. Department of Entomology, University of Arkansas, Fayetteville.

Tishechkin, A. K., and C. E. Carlton. *Mesynodites s. l.*: A barrier to understanding phylogenetic relationships within the Hetaeriinae. Display presentation, Annual Meeting, Entomological Society of America, Las Vegas, NV.

Wheeler, A. F., Jr., C. E. Carlton, and D. Landau (Co-organizers). Arthropods of unique communities and habitats in the southeastern United States. Symposium, Southeastern Branch Meeting, Entomological Society of America, Chattanooga, TN.

Carlton, C. E. Insects and the conservation of mixed mesophytic forest habitat on the Gulf Coastal Plain. Symposium presentation, Southeastern Branch Meeting, Entomological Society of America, Chattanooga, TN.

1997

Carlton, C. E. Patterns of endemism on the Gulf Coastal Plain in pselaphine staphylinids (Coleoptera: Staphylinidae: Pselaphinae). Oral presentation. Southeastern Branch Meeting, Entomological Society of America, Asheville, NC.

1995

Carlton, C. E. The genus *Reichenbachia* in eastern North America (Coleoptera: Pselaphidae). Oral presentation. Annual Meeting, Entomological Society of America, Las Vegas, NV.

Carlton, C. E. Silphid research in Arkansas. Conference on the American Burying Beetle. Invited paper, Norman, OK.

Carlton, C. E. Chile, a wrath of grapes. Departmental seminar, University of Arkansas, Fayetteville, AR.

Carlton, C. E. Introduction to pselaphine Staphylinidae. Invited Seminar, Louisiana State University, Department of Entomology, Baton Rouge, LA.

1993

Carlton, C. E. Arthropod biodiversity-sampling protocol development. Invited paper, U. S. Forest Service Symposium on Ecosystem Management, Hot Springs, AR.

Carlton, C. E. Forest substrate biodiversity research in the Ouachita Mountains. Departmental seminar, University of Arkansas, Fayetteville, AR.

1992

Carlton, C. E. Coleoptera diversity in deciduous forest substrates in the Ouachita Highlands of Arkansas. Display presentation, Annual Meeting, Entomological Society of America, Baltimore, MD.

Carlton, C. E., and R. A. Leschen. Methodology and theory in insect systematics. Invited seminar, Biology Department, University of Azuay, Cuenca, Ecuador.

1990

Carlton, C. E., and R. A. Leschen. Debris cloaking in *Bystus* "decorator" (Coleoptera: Endomychidae) larvae and the morphology of the thoracic musculature. Oral presentation. Annual Meeting, Entomological Society of America, New Orleans, LA.

1989

Biogeographic affinities of pselaphid beetles of the eastern United States. Symposium presentation, Southeastern Branch Meeting, Entomological Society of America, Orlando, FL.

1988

Carlton, C. E. Life history of the cactus boring moth *Melitara prodenialis* in Arkansas (Lepidoptera: Pyralidae). Oral presentation. Annual Meeting, Entomological Society of America, Louisville, KY.

Leschen, R. A., and C. E. Carlton. Immature stages of *Endomychus biguttatus* Say (Coleoptera: Endomychidae:), with observations on the alimentary canal. Display presentation. XVIII International Congress of Entomology, Vancouver, BC, Canada.

Scholarly or Creative Activities

Memberships in Professional Societies

American Entomological Society
 Natural Science Collections Alliance (Institutional Membership)
 Coleopterists Society
 Entomological Collections Network
 Entomological Society of America
 European Association of Coleopterists

Field Experience

Foreign

Australia

1993, four weeks. Visiting specialist, Queensland Museum. Collecting trips to a variety of forest habitats in southern Queensland.

2005, two weeks. Collecting expedition to Northern Territory.

2007, two weeks. Collecting expedition to Western Australia.

Belize

1996, three weeks. Coleoptera survey of Rio Bravo Conservation Area.

1997, three weeks. Coleoptera survey of Rio Bravo Conservation Area and tropical insect biodiversity project development in collaboration with Programme for Belize and Belize National Plant Protection Service.

Chile

1994, seven weeks. North-south transect, collecting expedition in a variety of desert and forest habitats.

Costa Rica

1998, two weeks. Field research on Coleoptera associated with army ants at LaSelva Biological Station.

2012, three weeks. OTS specialty course on Coleoptera at LaSelva Biological Station.

Ecuador

1991-1992, four weeks. Collecting expeditions to montane forests.

1990, three weeks. Collecting expeditions to montane forests.

1999, five weeks. Collecting expedition to Amazonian forest.

2008, five weeks. Collecting expedition to Amazonian forest.

2012, three weeks. Guest lecturer, Ceiba Foundation Conservation Semester in Ecuador, Galapagos Island portion..

Ghana

2001, two weeks. Collecting trip to Bobiri Forest Preserve, project development with Forestry Research Institute of Ghana.

India

2004, four weeks. Collecting trip to Assam and Meghalaya.

New Zealand

1998, four weeks. Visiting specialist, Landcare Research. Collecting trip to South Island. Research in New Zealand National Collection of Arthropods.

2000, four weeks. Visiting specialist, Landcare Research. Collecting trip to North Island. Research in New Zealand National Collection of Arthropods.

2003-04, four weeks. Visiting specialist, Landcare Research. Collecting trip to North Island. Research in New Zealand National Collection of Arthropods.

2007, five weeks. Visiting specialist, Landcare Research. Collecting trip to South Island. Research in New Zealand National Collection of Arthropods.

2010, three weeks. Visiting specialist, Landcare Research.

Taiwan

2004, 2005, one week each; 2006, three weeks. Visiting specialist, Forestry Research Institute and Taiwan National University. Reconnaissance survey of field sites and meetings with Taiwanese collaborators.

Field Experience**Domestic**Alabama

2013. Visited numerous caves in north-central Alabama to collect troglobitic and troglophilic beetles.

Arizona/New Mexico

2010-2013. Annual collecting trips to Sky Islands region, with detailed survey of Coleoptera, Chiricahua Mountains.

Arkansas

1977-1995. Extensive and frequent insect collecting throughout state.

Louisiana

2013. Louisiana State Arthropod Museum participated in the National Geographic/U.S. National Park Bioblitz at Jean Lafitte National Historic Park and Preserve (16-18 May).

1995-present. Extensive and frequent insect collecting throughout state, with detailed survey of Coleoptera and other insects, Feliciana Preserve, West Feliciana Parish.

Tennessee/North Carolina

2001-2010. Coleoptera survey of Great Smoky Mountains National Park (avg. 2 trips annually).

Texas

2000, 2005. Collecting trips, Big Bend National Park.

Annual collecting elsewhere in state.

Washington

1996. Collecting trip to Olympic Peninsula.

Study at Major Museums

1979, one month; 2005, one week. Smithsonian Institution (USNM), Washington, DC.

1982, 1995, one week each. Field Museum of Natural History Chicago, IL.

1985, two days, American Museum of Natural History, New York, NY.

2000, one week. Alexander König Museum, Bonn, Germany.

2000, three days. Canadian Museum of Nature, Ottawa, Canada.

2002, one week; 2008, two weeks. Natural History Museum, London, UK.

2002, one week. Muséum d'Histoire Naturelle, Geneva, Switzerland.

2008, Muséum national d'Histoire Naturelle, Paris, France.

Recognition of Scholarly Achievement

Awards

2012

Distinguished Alumnus, University of Arkansas Department of Entomology.

2005

Outstanding Scientist of the Year, Biodiversity Education. Presented by Discover Life in America, Inc.

2004

Outstanding Paper of the Year, 2004 Coleopterists Bulletin. Presented by Coleopterists Society.

Certificate of Appreciation, Editor 2000-2005, Presented by Coleopterists Society Executive Council.

1997

LSU Research Summer Stipend Award. Tropical insect biodiversity research at Rio Bravo Conservation and Management Area, Belize. \$4000.

1990

Field Museum of Natural History Scholarship Award, Chicago. \$1,020.

Adjunct Appointments and Graduate Faculty Memberships

Adjunct Professor, Department of Biological Sciences, Louisiana State University.

Graduate Faculty (Full Member), LSU, Baton Rouge.

Graduate Faculty (Associate Member), University of Miami, Miami, FL.

Research Support/Grant Activities

Grants and Contracts Awarded

2012

Carlton, C. E. Sorting and identification of aquatic insects. Louisiana Department of Environmental Quality. \$4000.

Carlton, C. E. Biosurveillance of the emerald ash borer using the native parasitoid *Cerceris fumipennis* (Hymenoptera: Crabronidae). USDA-Forest Service. \$62,590 (initial funding to Jeremy Allison).

Carlton, C. E. Chinese tallow tree ecology and control in Louisiana. USDA-Forest Service. \$74,932 (initial funding to Jeremy Allison).

Carlton, C. E. Exotic ambrosia beetles in Louisiana. USDA-Forest Service. \$74,911 (initial funding to Jeremy Allison).

2010

Carlton, C. E., and V. L. Bayless. Cyberization of the Louisiana State Arthropod Museum Collections. National Science Foundation. \$423,010.

Carlton, C. E. Identification of Curculionids and Staphylinids from Ft. Campbell Military Base, Kentucky and Tennessee. Ecotech, Inc. \$11,000.

2008

Sokolova, J., I. M. Sokolov, and C. E. Carlton. First survey of Microsporidia insect parasites in Great Smoky Mountains National Park. Discover Life in America. \$4987.

2005, 2010

Carlton, C. E. and M. L. Ferro. Identification of beetles associated with course woody debris. USDA, Forest Service. \$10,000 (2005); \$23,000 (2010).

2005

Carlton, C. E. Long-horned and Leaf Beetles from the ATBI Structured Sampling and Publication of New Taxa for the Great Smoky Mountains National Park. Discover Life in America, Inc. \$2500.

Carlton, C. E., and V. M. Bayless. Coleoptera of Great Smoky Mountains National Park. National Science Foundation. \$651,054.

2004

Carlton, C. E., and V. M. Bayless. Acquisition of a High Resolution Digital Imaging System for the Department of Entomology. Louisiana Board of Regents Enhancement Program. \$69,764.

2003

Carlton, C. E. Coleoptera Taxonomic Working Group (TWIG) Year 3: Identifying the catch. Discover Life in America. \$4600.

2002

Carlton, C. E., and A. Cline. NSF Doctoral Dissertation Improvement Grant. The systematics and biogeography of *Pocadius* and related genera (Coleoptera: Nitidulidae). National Science Foundation. \$3350.

Carlton, C. E. Continued support for the Coleoptera Taxonomic Working Group (TWIG) at the Louisiana State Arthropod Museum (LSAM). Discover Life in America. \$6358.

Carlton, C. E., and L. Hooper-Bui. Screening Glassy-winged Sharpshooters for Egg Parasitoids in the Baton Rouge, LA Area. University of California, Riverside. \$2000.

2001

Carlton, C. E. Coleoptera Taxonomic Working Group (TWIG) at the Louisiana State Arthropod Museum (LSAM). Discover Life in America. \$4980.

2000

Carlton, C. E. Research experiences for undergraduates supplement. National Science Foundation. \$5000.

1999

Weir, A., C. E. Carlton, and R. A. B. Leschen. South temperate beetles hangers: A survey of New Zealand Laboulbeniales fungi and their beetle hosts. National Science Foundation. \$148,896.

Carlton, C. E., and A. K. Tishechkin. Systematics of the inquilinous hister beetle complex *Mesynodites* (Histeridae: Hetaeriinae). National Science Foundation. \$81,300.

1997

Carlton, C. E., and V. L. Moseley. Expansion and enhancement of the Louisiana State Arthropod Museum. Louisiana Education Quality Support Fund. \$56,000.

Carlton, C. E., and D. P. Prowell. Comparative insect diversity in natural ecosystems on the Gulf Coastal Plain. Louisiana Education Quality Support Fund. \$89,000.

1996

Carlton, C. E. Glassy-winged sharpshooter, *Homalodisca coagulata*, egg parasitoid screening. University of California. \$1000.

1995

Whitfield, J. B., and C. E. Carlton. Improvement of the University of Arkansas Arthropod Museum facilities. National Science Foundation. \$51,920.

Carlton, C. E. Habitat transect survey of the American burying beetle in the Ouachita National Forest. United States Forest Service. \$6000.

1994

Carlton, C. E. Annual monitoring survey of the American burying beetle on the Fort Smith, AR, Landfill (Coleoptera: Silphidae). City of Fort Smith. \$27,500.

Carlton, C. E. Habitat transect survey of the American burying beetle in the Ouachita National Forest. United States Forest Service. \$4500.

Carlton, C. E. Reconnaissance survey of terrestrial insects in the Cecil Creek area of the Buffalo National River. U. S. Department of Interior, National Parks Service. \$3900.

Carlton, C. E. Biodiversity analysis of selected taxa from the Ouachita National Forest. United States Forest Service. \$15,000.

1993

Carlton, C. E. Survey of the endangered American burying beetle, *Nicrophorus americanus*, in Arkansas (Coleoptera:Silphidae). Arkansas Game and Fish Commission. \$25,000.

1992

Mangini, A, and Carlton, C. E. Preliminary survey of regeneration weevils and defoliators in the Ouachita National Forest. United States Forest Service. \$14,992.

Carlton, C. E., and L. C. Thompson. Arthropod biodiversity study in the Ouachita National Forest. United States Forest Service. \$44,000.

1991

Carlton, C. E. Survey of the American burying beetle, *Nicrophorus americanus* Oliver, in the Ouachita National Forest (Coleoptera: Silphidae). United States Forest Service. \$1,000.

Carlton, C. E. Survey of substrate arthropods in deciduous climax forests in the Ouachita National Forest. United States Forest Service. \$3,000.

1988

Carlton, C. E., and T. J. Kring. Biology and rearing requirements of *Melitara prodenialis* Walker (Lepidoptera: Phycitidae). Arkansas Science and Technology Authority. \$13,595.

1987

Allen, R. T., and C. E. Carlton. Survey of the insect fauna of Mt. Magazine. Arkansas Non-Game Preservation Committee. \$2,200.

Major Areas of Research Interest

Areas of Emphasis

Systematics of Coleoptera, especially the family Staphylinidae, subfamily Pselaphinae and the family Nitidulidae, biogeography, larval morphology, forest litter diversity and conservation biology.

Current Research Projects

Revisions of pselaphine staphylinid beetle genera and species descriptions.

Beetle biodiversity in Great Smoky Mountains National Park (Leader, Taxonomic Working Group).

Ecology of saproxylic Coleoptera (collaboration with M. Ferro).

Fire ecology of forest litter Coleoptera in western sky islands (collaboration with M. Ferro).

Biodiversity and insect ecology of forested wetlands of Louisiana.

Pselaphine Staphylinidae of New Zealand (collaboration with J.-S. Park, D. S. Chandler, and R. A. B. Leschen).

SERVICE**University Service**

Department of Entomology committee memberships

Senior Faculty Advisory Committee (2010-present; Chair, 2012-2013)./

Website Committee (Chair, 2003-present).

Seminar Committee (Chair, 2008-present).

Space Committee (Chair, 2012).

Graduate Student Orientation (Chair, 2005-2007).

Distinguished Lecturer (1996-97; Chair, 2002-2003).

Courses and Curriculum (1996-99; Chair, 2001-2002).

Museum (Chair, 1995-2001).

USDA CSREES Review Committee (2000-2001).

Student Awards (1995-97).

LSU College of Agriculture committee memberships

Outstanding Dissertation Selection Committee (2011-2013).

Agriculture Faculty Policy Committee (1996-98).

LSU Main Campus

Life Sciences Research Development Committee (2009-2010).

Professional Service

Panelist, National Science Foundation, April, 2006, 2007, Arlington, VA.

Program review panels, USDA-ARS Systematic Entomology Laboratory, 2004, 2010, Beltsville, MD.

Peer reviews

Journal articles: *Annals of the Entomological Society of America*, *Acta Entomologica Musei Nationalis*, Prague, *American Naturalist*, *American Midland Naturalist*, *BioEssays*, *Canadian Entomologist*, *Caribbean Journal of Science*, *Coleopterists Bulletin*, *Entomologia Experimentalis et Applicata*, *Entomological News*, *Frontiers in Ecology*, *Florida Entomologist*, *Journal of Biosciences*, *Journal Kansas Entomological Society*, *Invertebrate Taxonomy*, *Natural Areas Journal*, *Proceedings Arkansas Academy of Science*, *Proceedings of the Philadelphia Academy of Sciences*, *Southeastern Naturalist*, *Systematic Entomology*, *Transactions of the American Entomological Society*, *Rajshahi University Journal of Zoology*, *Zoological Studies*, *Zookeys*, and *Zootaxa*.

Grant proposals: Leverhulme Trust, National Science Foundation, and USDA/NRI Competitive Grants Program.

Coleopterists Society

President Elect (2013-2014).
Editor, Coleopterists Bulletin (1999-2005).
Open Access Committee (2005-2008).
Nominated for President (1998). Robert S. Anderson was elected.

Entomological Society of America

Section A Publications Review Committee (1997-98).
Entomological Society of America Committee on Education and Youth (1999-2001).
Judge of Student Display Presentations (Section A) at National Meetings (1997, 1999, 2005).
Judge of Student Oral Presentations (Section A) at National Meetings (2007).

Cambridge Entomological Society

Editorial Board, Psyche (2007-2011).

Other External Service

Volunteer Training Workshop (April 2004), "Sampling and Identifying Forest Litter Arthropods." Discover Life in America, Great Smoky Mountain National Park.

Responsible for identifications and diagnoses of insects for public, Louisiana Cooperative Extension Service, and LSU faculty/students.

Education Chair, 2002-2004. Baton Rouge Chapter, National Audubon Society.

Vice-President, 2004-2005. Baton Rouge Chapter, National Audubon Society.

President 2005-2007. Baton Rouge Chapter, National Audubon Society.

Treasurer, 1997-present. Feliciana Preserve Landowners Association (501c3 organization devoted to preservation of the Feliciana Preserve in West Feliciana Parish, LA).