

# ALLEN F. SANBORN, PHD

## COURSES TAUGHT

- BIO 216, BIO 216L Zoology with Lab
- BIO 225, BIO 225L Comparative Anatomy with Lab
- BIO 334, Human Physiology
- BIO 335, BIO 335L Comparative Physiology with Lab
- BIO 339, Animal Behavior

## RESEARCH INTERESTS

- Mechanisms that permit habitat utilization and communication in insects of the superfamily Cicadoidea.
- Thermal biology including thermal adaptation, temperature regulation, and endothermy primarily in insects but have worked with ratites and guanacos as well.
- Ecology, behavior, and acoustic biology of cicadas.
- Taxonomy, systematics, and morphology of cicadas.

## RECENT PUBLICATIONS

- 2019 Pham, T.-H., A.F. Sanborn, H.-T. Nguyen, and J. Constant. A new species and first record of the cicada genus *Sinotympana* Lee, 2009 (Hemiptera: Cicadidae: Dundubiini) from Vietnam. *Zootaxa* 4664(4): 565-573. <https://doi.org/10.11646/zootaxa.4664.4.8>
- 2019 Sanborn, A.F. The cicadas (Hemiptera: Cicadidae) of Bolivia including the description of fifteen new species, the resurrection of one genus and two species, five new combinations, six new synonymies, and twenty-eight new records. *Zootaxa* 4655(1): 1-104. <https://doi.org/10.11646/zootaxa.4655.1.1>
- 2019 Sanborn, A.F. A new species of the genus *Caledopsaltria* Stål, 1861 (Hemiptera: Cicadidae: Cicadettinae: Parnisiini) from South Africa. *Proceedings of the Entomological Society of Washington* 121(3): 491-496. <https://doi.org/10.4289/0013-8797.121.3.491>
- 2019 Sanborn, A.F. Revision of the genus *Selymbria* Stål, 1861 (Hemiptera: Cicadidae: Tibicininae: Selymbriini): redescription including ten new species and

a key to the species of the genus. *Zootaxa* 4614(3): 401-448.

<https://doi.org/10.11646/zootaxa.4614.3.1/>

- 2019 Sánchez-García, J.A., J.J. Velázquez-Monreal, H.M. Guzmán-Vásquez, R. Jarquín-López, J.A. Ortiz-López, M.Á. Manzanilla-Ramírez, M. Ovando-Cruz, T. Aquino-Bolaños, and A.F. Sanborn. New host records and biological notes for *Diceroprocta bulgara* (Distant) (Hemiptera: Cicadidae) in Mexico. *Southwestern Entomologist* 44(1): 229-233.  
<https://doi.org/10.3958/059.044.0125>
- 2018 Sanborn, A.F. The cicadas (Hemiptera: Cicadidae) of Panama including the description of six new species, three new combinations, one new synonymy and nine new records. *Zootaxa* 4493(1): 1-69. (Monograph ISBN 978-1-77670-490-3)  
<https://doi.org/10.11646/zootaxa.4493.1.1>
- 2018 Sanborn, A.F. A natural miniature of the cicada *Zammara calochroma* Walker, 1858 (Hemiptera: Cicadoidea: Cicadidae). *Proceedings of the Entomological Society of Washington* 120(3): 575-579.  
<https://doi.org/10.4289/0013-8797.120.3.575>
- 2018 Marathe, K., A.F. Sanborn, and K. Kunte. Revision of the genus *Rustia* Stål, 1866 (Hemiptera: Cicadidae: Cicadinae) including a generic synonymy, four new combinations, and two new species from the Western Ghats, India. *Zootaxa* 4457(3): 431-443.  
<https://doi.org/10.11646/zootaxa.4457.3.5>
- 2018 Prathapan, K.D., R. Pethiyagoda, K.S. Bawa, P.H. Raven, D.R. Priyadarsanan, L.E. Acosta, B. Adams, S. Adl, S.T. Ahyong, R. Anderson, C.P. Arango, M.A. Arnedo, J.W. Armbruster, L.J. Avila, C.O. Azevedo, D. Baldo, R. Baron-Szabo, A.M. Bauer, B. Bentlage, A. Bezděk, G. Bird, V. Blagoderov, L. Bocak, A. Bonaldo, J.E. Bond, C.J. Borkent, M.A. Branham, S. Carranza, R. Carreno, M. R. de Carvalho, S. Castroviejo-Fisher, H. Chiba, F. Çiampor, D.J. Clarke, A.G. Collins, R. Constantino, F.A. Crespo, M. Daly, P. Dominiak, N. Dronen, A. Dubois, T.F. Duda, Jr., M. Eléaume, S. Erlacher, P.C. Estrela, N. Evenhuis, K.H. Fehlaue-Ale, H. Fery, U. Fritz, S.D. Gaimari, R. Garrison, P. Gaubert, D.L. Geiger, A.C. Gill, M.L. Gimmel, T. Goldschmidt, A.P. González, V.H. Gonzalez, D. Gordon, R. Goswami, D.J. Gower, P. Greenslade, V.I. Gusarov, E. Hajdu, D. Harms, M.P. Heinicke, E.J. Hilton, C.J. Hodgson, O. Holovachov, G. Hormiga, L.E. Hughes, P. Hutchings, P. Jäger, J.T. Jennings, M. Kadej, L. Kaila, M.J. Kamiński, G.S. Karaman, T. Karanovic, J. Kathirithamby, P.H. Kerr, L.R. Kirkendall, M.V. Kitahara, M. Klautau, B.C. Kondratieff, A. Kroh, F.M. Labarque, J.M. Leavengood, Jr., A. Letardi, A.-P. Liang, F.C.T. Lima, Z. Liu, I. Löbl, V. Lohrmann, N. Malchus, M.B. Malipatil, A.C. Marques,

R. Matzke-Karasz, G. Mayer, J.G. Mayoral, S.J. McInnes, A. Minelli, M.L. Moir, S. Monks, J.J. Morrone, C. Muster, Z.T. Nagy, K.S. Narayanan, E.H. Nearn, J. Nekola, S.S. Nihei, A. Nützel, A. Ohler, V.G.D. Orrico, J.M. Padial, L.M. Page, P. Passos, D. Paulson, P.D. Perkins, T. Pfingstl, L.R. Pinheiro, R. Pinto-da-Rocha, L. Prendini, B. Price, C. Prieto, J. De Prins, M. Ramirez, C. Rasmussen, P. Rasmussen, D. Redei, I. Ribera, A. Ricarte, J. Rivera, M.G. Rix, B. Rossaro, A.D. Roy, G.R.S. Ruiz, F.F. Salles, A.F. Sanborn, M. Sartori, M. Schöller, R.M. Schmelz, M. Schrödl, G.H. Segniagbeto, J. Serrano, S. Shimano, M.K. Shin, E. Sidorchuk, C.D. Siler, B. Sket, A.D. Smith, A.B.T. Smith, R. Smith, A.H. Smith-Pardo, J. Sparks, W. E. Sterrer, A. Stroiński, J. Svavarsson, M. Toledo, E. Twomey, K. Vasudevan, M. Vences, N. de Voogd, Q. Wang, G.W. Watson, W.M. Weiner, M. Weksler, T. Wesener, D. Whitmore, H. Wiklund, P.H. Williams, S.L. Winterton, T.S. Wood, S.-H. Yen, H. Zaher, Z.-Q. Zhang, H.-Z. Zhou. When the cure kills-CBD limits biodiversity research. *Science* 360(6396): 1405-1406.

<https://doi.org/10.1126/science.aat9844>

- 2018 Marshall, D.C., M.S. Moulds, K.B.R. Hill, B.W. Price, E.J. Wade, C.J. Owen, G. Goemans, K. Marathe, V. Sarkar, J.R. Cooley, A.F. Sanborn, K. Kunte, M.H. Villet, and C. Simon. A molecular phylogeny of the cicadas (Hemiptera: Cicadidae) with a review of tribe and subfamily level classification. *Zootaxa* 4424(1): 1-64. (Monograph ISBN 978-1-77670-374-6)  
<https://doi.org/10.11646/zootaxa.4424.1.1>
- 2018 Bartlett, C.R., L.L. Deitz, D.A. Dmitriev, A.F. Sanborn, A. Soulier-Perkins, and M.S. Wallace. The diversity of the true hoppers (Hemiptera: Auchenorrhyncha). Pages 501-590 in R.G. Foottit and P.H. Alder, eds. *Insect Biodiversity: Science and Society, Volume II: Current Trends and Future Prospects*, First Edition. John Wiley & Sons Ltd., Hoboken, NJ. ISBN: 978-1-118-94557-5.  
<https://doi.org/10/1002/9781118945582.ch19>
- 2018 Marshall, D.C., M. Moulds, M. Boulard, A.F. Sanborn, A. Ewart, C. Wei, K. Mirathe, L.W. Popple, B.W. Price, and C. Simon. Case 3761 - PLATYPLEURINI Schmidt, 1918: proposed precedence over HAMZARIA Distant, 1905 to conserve nomenclatural stability in the CICADIDAE (Insecta: Hemiptera: Auchenorrhyncha: CICADOIDEA). *Bulletin of Zoological Nomenclature* 75(1): 49-54. <https://doi.org/10.21805/bzn.v75.a012>
- 2018 Dmitriev, D., A. Sanborn, and D. Takiya. 3i Auchenorrhyncha: World Auchenorrhyncha Database (version Nov 2017). In: *Species 2000 & ITIS Catalogue of Life, 2018 Annual Checklist* (Roskov Y., Abucay L., Orrell T.,

Nicolson D., Bailly N., Kirk P.M., Bourgoïn T., DeWalt R.E., Decock W., De Wever A., Nieuwerkerken E. van, Zarucchi J., Penev L., eds.). Digital resource at [www.catalogueoflife.org/annual-checklist/2018](http://www.catalogueoflife.org/annual-checklist/2018). Species 2000: Naturalis, Leiden, the Netherlands. ISSN 2405-884X.

- 2018 Sanborn, A.F. Two new genera and two new species of cicadas from Central America (Hemiptera: Cicadidae: Cicadinae). *Zootaxa* 4418(2): 148-160. <https://doi.org/10.11646/zootaxa.4418.2.4>
- 2018 Sanborn, A.F. Two new species and revised species status for two species of *Ueana* Distant, 1905 (Hemiptera: Cicadoidea: Cicadidae). *Proceedings of the Entomological Society of Washington* 120(1): 167-179. <https://doi.org/10.4289/OO13-8797.120.1.167>
- 2018 Sanborn, A.F. The cicada genus *Procollina* Metcalf, 1952 (Hemiptera: Cicadidae): redescription including fourteen new species, with a key to the species of the subtribe *Dazina* Kato, 1932 rev. stat., the description of the *Aragualnini* n. tribe, and one new combination. *Zootaxa* 4389(1): 1-65. (Monograph ISBN 978-1-77670-325-8) <https://doi.org/10.11646/zootaxa.4389.1.1>
- 2017 Sanborn, A.F. A new species of *Carineta* Amyot & Audinet-Serville, 1843 (Hemiptera: Cicadoidea: Cicadidae) from Martinique. *Proceedings of the Entomological Society of Washington* 119(4): 629-636.B, <https://doi.org/10/4289/OO13-8797.119.4.629>
- 2017 Sanborn, A.F. Generic redescription, seven new species and a key to the *Taphura* Stål, 1862 (Hemiptera: Cicadidae: Cicadettinae: Taphurini). *Zootaxa* 4324(3): 451-481. <https://doi.org/10.11646/zootaxa.4324.3.3>
- 2017 Sanborn, A.F., and M.S. Heath. Replacement name for the cicada genus *Torresia* Sanborn and Heath, 2014 (Hemiptera: Cicadidae: Tibicininae: Tettigadini). *Zootaxa* 4286 (1): 115. <https://doi.org/10.11646/zootaxa.4286.1.6>
- 2017 Sanborn, A.F., and M.S. Heath. Catalogue of the cicadas (Hemiptera: Cicadoidea: Cicadidae) of North America North of Mexico, second edition. *Thomas Say Publications in Entomology, Monographs*. Entomological Society of America, Annapolis, MD. 302 pp. (ISBN 978-0-9966674-2-5)
- 2017 Sanborn, A.F., J.E. Heath, M.S. Heath, and P.K. Phillips. Thermal adaptation in North American cicadas (Hemiptera: Cicadidae). *Journal of Thermal Biology* 69: v-xviii. <https://doi.org/10.1016/j.jtherbio.2017.07.011>

- 2017 Sanborn, A.F., and M.S. Heath. Priority and synonymy of some North American cicada genera (Hemiptera: Cicadidae: Cicadinae: Cryptotympanini). *Zootaxa* 4243(2): 377-382.  
<https://doi.org/10.11646/zootaxa.4243.2.8>
- 2017 Sanborn, A., and D.A. Dmitriev. 3i Cicadoidea: 3i interactive keys and taxonomic databases, superfamily Cicadoidea (version 2017). In Y. Roskov, L. Abucay, T. Orrell, D. Nicolson, T. Kunze, A. Culham, N. Bailly, P. Kirk, T. Bourgoïn, R.E. DeWalt, W. Decock, and A. De Wever, eds., *Species 2000 & ITIS Catalogue of Life, 2017 Annual Checklist*. Digital resource at <http://www.catalogueoflife.org/annual-checklist/2017>. Species 2000: Naturalis, Leiden, the Netherlands. ISSN 2405-917X.
- 2017 Sanborn, A.F., and Z. Ahmed. A new genus and new species of Cicadettini (Hemiptera: Cicadidae: Cicadettinae) from Pakistan. *Zootaxa* 4238(2): 293-300.  
<https://doi.org/10.11646/zootaxa.4238.2.12>
- 2016 Sanborn, A.F., and M.S. Heath. *Megatibicen* n. gen., a new North American cicada genus for some former members of the genus *Tibicen* Latreille, 1825 (Hemiptera: Cicadidae: Cicadinae: Cryptotympanini). *Zootaxa* 4168(3): 577-582.  
<http://doi.org/10/11646/zootaxa.4168.3.10>
- 2016 Sanborn, A.F. Generic redescription, two new species, and a key to the species of the cicada genus *Ariasa* Distant, 1905 with the description of a new genus (Hemiptera: Cicadidae: Cicadinae: Fidicinini). *Zootaxa* 4137(4): 501-519. <http://dx.doi.org/10.11646/zootaxa4137.4.3>
- 2016 Sanborn, A., and D.A. Dmitriev. 3i Cicadoidea: 3i interactive keys and taxonomic databases, superfamily Cicadoidea (version 2016). In Y. Roskov, L. Abucay, T. Orrell, D. Nicolson, T. Kunze, A. Culham, N. Bailly, P. Kirk, T. Bourgoïn, R.E. DeWalt, W. Decock, and A. De Wever, eds., *Species 2000 & ITIS Catalogue of Life, 2016 Annual Checklist*. Digital resource at <http://www.catalogueoflife.org/annual-checklist/2016>. Species 2000: Naturalis, Leiden, the Netherlands. ISSN 2405-917X.
- 2016 Sanborn, A.F. Five new species, a new genus and a new record of cicadas from French Guiana with four new combinations and three new synonymies (Insecta, Hemiptera, Cicadoidea, Cicadidae). *Zoosystema* 38(2): 177-199.  
<http://dx.doi.org/10.5252/z2016n2a2>
- 2016 Sanborn, A.F. Erratum. Allen F. Sanborn (2016) The cicada genus *Guyalna* Boulard & Martinelli, 1996 (Hemiptera: Cicadidae: Cicadinae: Fidicinini): generic description, twelve new combinations, and a key to the species. *Zootaxa*,

4105(5): 430-454. Zootaxa 4121(5): 600.

<http://dx.doi.org/10.11646/zootaxa.4121.5.10>

- 2016 Sanborn, A.F. The cicada genus *Guyalna* Boulard & Martinelli, 1996 (Hemiptera: Cicadidae: Cicadinae: Fidicinini): generic description, twelve new combinations, and a key to the species. Zootaxa 4105(5): 430-454.  
<http://dx.doi.org/10.11646/zootaxa.4105.5.2>
- 2016 Sanborn, A.F., P.K. Phillips, and M.H. Villet. Song analysis of South African pygmy bladder cicadas (Hemiptera: Cicadidae: Cicadettinae: Tettigomyiini). *Annals of the Entomological Society of America* 109(4): 526-533.  
<http://dx.doi.org/10.1093/aesa/saw024>
- 2016 Mozaffarian, F., and A.F. Sanborn. Two species of the genus *Tibicen* Latreille, 1825 (Hemiptera: Cicadidae) in Iran, with an identification key to the genera of the family Cicadidae (Hemiptera) in the country. *Acta Zoologica Bulgarica* 68(4): 469-476.  
<http://www.actazoologica-bulgarica.eu/downloads/acta-zoologica-bulgarica/2016/68-4-469-476.pdf>
- 2016 Sanborn, A.F., and M.H. Villet. Two new species of *Xosopsaltria* Kirkaldy, 1904, with a key to the species of South African pygmy bladder cicadas (Hemiptera: Cicadidae: Cicadettinae: Tettigomyiini). Zootaxa 4092(2): 195-206. <http://dx.doi.org/10.11646/zootaxa.4092.2.3>
- 2015 Gogala, M., K. Šporar, A.F. Sanborn, and D.H.B. Maccagnan. New cicada species of the genus *Guyalna* (Hemiptera: Cicadidae) from Brazil. *Acta Entomologica Slovenica* 23(3): 105- 116.  
[http://www.zobodat.at/pdf/ActaEntSlov\\_23\\_0105-0116.pdf](http://www.zobodat.at/pdf/ActaEntSlov_23_0105-0116.pdf)
- 2015 Young, A.M., and A.F. Sanborn. The seasonal and nocturnal attraction of *Proarna* and *Pacarina* cicadas (Hemiptera: Cicadidae) to lights in the Caribbean floodplain of Costa Rica and in French Guiana. *Entomologica Americana* 121(1-4): 13-17.  
<http://dx.doi.org/10.1664/15-RA027.1>
- 2015 Lee, Y.J., and A.F. Sanborn. Erection of a new genus, *Biura* gen. nov., of the subtribe *Aolina* (Hemiptera: Cicadidae: Cicadinae: Dundubiini). Zootaxa 4044(4): 596-598.  
<http://dx.doi.org/10.11646/zootaxa.4044.4.9>
- 2015 Sanborn, A.F. New combinations for six species belonging to *Cryptotympanini* Handlirsch (Hemiptera: Cicadidae), former members of the genus *Tibicen* Latreille, 1825. Zootaxa 4027(2): 447-450.  
<http://dx.doi.org/10.11646/zootaxa.4027.3.9>

- 2015 Sanborn, A., and D.A. Dmitriev. 3i Cicadoidea: 3i interactive keys and taxonomic databases, superfamily Cicadoidea (version 2014). In Y. Roskov, L. Abucay, T. Orrell, D. Nicolson, T. Kunze, A. Culham, N. Bailly, P. Kirk, T. Bourgoin, R.E. DeWalt, W. Decock, and A. De Wever, eds., *Species 2000 & ITIS Catalogue of Life, 2015 Annual Checklist*. Digital resource at <http://www.catalogueoflife.org/annual-checklist/2015>. Species 2000: Naturalis, Leiden, the Netherlands. ISSN 2405-884X.
- 2015 Maccagnan, D.H.B., and A.F. Sanborn. *Orialella aerizulae* Boulard, 1986 (Hemiptera: Cicadidae): first registry from Brazil (Hemiptera: Cicadidae). *Florida Entomologist* 97(3): 984- 986.  
<http://journals.fcla.edu/flaent/article/view/84622/84031>
- 2015 Sanborn, A.F. The cicadas (Hemiptera: Cicadidae) of Nepal with new records and a checklist of Himalayan cicadas. Pages 211-226 in M. Hartmann and J. Wiepert, eds., *Biodiversität und Naturlausstattung im Himalaya - Biodiversity and Natural Heritage of the Himalaya, Volume V*. Verein der Freunde und Förderer des Naturkundemuseums Erfurt e. V., Erfurt.
- 2015 Mozaffarian, F., and A.F. Sanborn. *Cicadatra pazukii*, a new cicada species (Hemiptera: Cicadidae) with an identification key to the species of *Cicadatra* in Iran. *Acta Entomologica Musei Nationalis Pragae* 55(1): 19-27.  
[http://www.aemnp.eu/PDF/55\\_1/55\\_1\\_19.pdf](http://www.aemnp.eu/PDF/55_1/55_1_19.pdf)
- 2015 Ahmed, Z., A.F. Sanborn, and I. Khatri. A key to the cicadas of Pakistan based on structural variation in the timbals (Hemiptera: Cicadoidea). *Pakistan Journal of Zoology* 47(2): 589-591.  
<http://zsp.com.pk/pdf47/565-598%20%2834%29%20SHORT%20COMMUNICATIONS%202015.pdf>
- 2015 Sanborn, A.F. Four new species of cicadas from Papua New Guinea (Hemiptera: Cicadoidea: Cicadidae). *Journal of Asia-Pacific Entomology* 18(2): 283-290.  
<http://dx.doi.org/10.1016/j.aspen.2015.03.001>

## PUBLICATIONS WITH STUDENT CO - AUTHORS

- 2009 Sanborn, A.F., and J.F. Maté Nankervis. Hexapod diversity on an urban university campus. *Florida Scientist* 72(1): 66-92.

- 2008 Sanborn, A.F., P.K. Phillips, and P.J. Gillis. The cicadas of Florida (Hemiptera: Cicadoidea: Cicadidae). *Zootaxa* 1916: 1-43.
- 2000 Sanborn, A.F., and S. Maté. Thermoregulation and the effect of body temperature on call temporal parameters in the cicada *Diceroprocta olympusa* (Homoptera: Cicadidae). *Comparative Biochemistry and Physiology. Part A. Molecular & Integrative Physiology* 125(1): 141-148.
- 1998 De Lamo, D.A., A.F. Sanborn, C.D. Carrasco, and D.J. Scott. Daily activity and behavioral thermoregulation in the guanaco (*Lama guanicoe*) in winter. *Canadian Journal of Zoology* 76(7): 1388-1393.

## RESEARCH SUPPORT AND APPOINTMENTS

- Editorial Board *Open Access Insect Physiology, International Journal of Biogeography*
- Subject Editor *ZooKeys, Zootaxa*
- Research Associate, Florida State Collection of Arthropods
- Research Cooperator, North Carolina State University Insect Collection
- Visiting Scholar, University of Arizona (2003)

## HONORS/AWARDS

- Barry University Outstanding Faculty Member Award, 1996, 2004
- Sr. Jeanne O’Laughlin Scholar Award, 2000, 2009
- Ambassador Jean Wilkowski International Fellowship, 2001, 2002
- Who’s Who Among America’s Teachers, 1996, 1998, 2004, 2005
- Who’s Who in America, 2014

## COLLABORATORS

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- **Ŝporar, K., European Neuroscience Institute, Göttingen, Germany**
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## **PROFESSIONAL MEMBERSHIPS**

- **American Association for the Advancement of Science**
- **American Physiological Society**
- **Entomological Society of America**
- **Entomological Society of Washington**
- **Florida Entomological Society**
- **Sigma Xi, The Scientific Research Society**
- **Society for Integrative and Comparative Biology**
- **Southwestern Association of Naturalists**