

JAMES C DUNFORD, PhD Medical Entomologist

PROFESSIONAL CONTACT INFORMATION

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PROFILE

In my current position as Assistant Officer in Charge at the Navy Entomology Center of Excellence (NECE), I supervise 38 active duty, GS and contractor staff and manage a \$4M budget with a mission to protect service members and reduce the global burden of vector-borne disease. I also manage over 20 research projects that foster domestic and international partnerships with nearly 60 agencies engaged in public health initiatives. I have also led the development of a multi-million-dollar pathogen detection and insecticide resistance monitoring genomics laboratory at NECE which represents the first of its kind for the Department of Defense. Across the 25+ years of my Naval career and academic programs, I have experience in all aspects of arthropod and vertebrate pest/vector surveillance and control, planning and execution of integrated vector/pest management programs, and research addressing gaps in management tools. I have field experience in austere/urban domestic and international environments and have worked with nearly 20 host nation ministries of health on vector related issues across the globe. My academic background includes an extensive teaching portfolio, community outreach experience, service to academic community, and peer reviewed publications spanning diverse entomological disciplines, to include: vector control and surveillance, insect biology/ecology, taxonomy and systematics, toxicology, and conservation. My scientific background embodies a one health approach to solving long-standing and emerging vector-borne disease issues.

EDUCATION

US Navy/CDC Fellowship-Centers for Disease Control and Prevention, Atlanta (2011-2013)

Doctor of Philosophy – University of Florida (2007); Major: Entomology and Nematology

Master of Science – University of Wisconsin-Madison (2000); Major: Entomology

Bachelor of Arts – University of Wisconsin-Milwaukee (1996); Major: Biological Sciences

EMPLOYMENT

2004-current

DEPARTMENT OF DEFENSE: U.S. NAVY COMMISSIONED OFFICER

Commands/duties/positions listed below:

2020-current

NAVY ENTOMOLOGY CENTER OF EXCELLENCE

- Position and Responsibilities: **Assistant Officer in Charge/Science Director**. Supervise 38 active duty, GS and contractor staff and manage a \$4M budget with a mission to protect service members from environmental threats and reduce the global burden of vector-borne disease. Manage over 20 research projects that foster domestic and international partnerships with nearly 60 agencies engaged in public health initiatives. Primary active-duty administration officer; includes management of civilian hiring actions, pay and leave approvals, awards programs, travel requests, and compliance with U.S. government/Department of Defense programs and policies.

2018-current

UNIFORMED SERVICES UNIVERSITY OF THE HEALTH SCIENCES

School of Medicine

Preventive Medicine and Biostatistics Department

- Position and Responsibilities: **Assistant Professor (currently Adjunct Assistant Professor); Faculty Senate-Basic Science Senator; Faculty Senate Research Policy Committee Co-Chair, Faculty Senate Education Committee; Department of Preventive Medicine and Biostatistics Strategic Planning Committee Co-Chair**. Teach graduate and undergraduate preventive medicine, general entomology, tick identification and ecology, and vector biology courses. Committee member for graduate students majoring in vector biology. Led research and educational program planning and execution for School of Medicine and Preventive Medicine and Biostatistics Department. Designed course curriculum for newly accredited Vector Biology and Parasitology program.

2015-2018

NAVY AND MARINE CORPS PUBLIC HEALTH CENTER (now NAVY AND MARINE CORPS FORCE HEALTH PROTECTION COMMAND)

- Positions and Responsibilities: **Head-Preventive Medicine and Program and Policy Support Department; Disease Vector Component Manager, Forward Deployable Preventive Medicine Unit-Expeditionary Platforms Department; Staff Entomologist**. Head of Preventive Medicine Program and Policy Support Department; supervised 20 active duty and civilian experts in the fields of environmental health, industrial hygiene, microbiology, epidemiology, disease surveillance, and policy/guidance development and delivery to Navy and Marine Corps preventive medicine programs across the globe. Disease Vector Component Manager in charge of specialized vector control and surveillance equipment and training associated with Forward Deployable Preventive Medicine Units based at Navy Environmental and Preventive Medicine Units located on the east and west coasts of the U.S., Hawaii and Spain. Navy Bureau of Medicine and Surgery, Zika Action Group Chair; entomologist assigned to lead Navy and Marine Corps Public Health Center field activity commands in response to Zika virus outbreak.

2013-2015

NAVY ENVIRONMENTAL AND PREVENTIVE MEDICINE UNIT TWO

- Position and Responsibilities: **Entomology Division Officer; Lead entomologist** on Forward Deployable Preventive Medicine/Humanitarian Response Unit. Head of the Entomology Division with oversight of \$1M budget and seven personnel as well as lead entomologist on a humanitarian response/deployed

war-fighter team capable of conducting environmental health site assessments in support of relief or combat operations. Instructed courses related to insect biology and identification, Category 8 Pesticide Applicator Certification, Shipboard Pest Management, and Operational Entomology Training. Provided arthropod diagnostics and integrated pest management services to the Navy/Coast Guard/Army on Department of Defense (DoD) ships and shore station establishments in the eastern U.S. and Southern Command Area of Responsibility. Conduct collaborative research with CDC and other DoD assets focusing on emerging vector-borne disease surveillance, novel insecticides, repellents, and insecticide resistance monitoring.

2011-2013

UNITED STATES NAVY DIRECTOR'S TRAINING FELLOW-GUEST RESEARCHER, CENTERS FOR DISEASE CONTROL AND PREVENTION-ATLANTA

- Position and Responsibilities: **Guest Researcher/Research Fellow**. Conduct vector control research related to insecticide resistance, testing novel insecticides. Primary investigator and collaborator on projects supporting the President's Malaria Initiative, Amazon Malaria Initiative, and Deployed War-Fighter Protection Program objectives. Primary investigator on projects funded by private industries to independently evaluate novel disease vector control products and testing methodologies. Scripted and produced insecticide resistance training video (https://www.cdc.gov/parasites/education_training/lab/bottlebioassay.html) to accompany laboratory manual. Developed internship curriculum for national and international students at the CDC-Entomology Branch. Advisor of students working on vector control research projects. Secured funding for formal program agreement between colleges and CDC.

2008-2011

NAVY ENTOMOLOGY CENTER OF EXCELLENCE

- Position and Responsibilities: **Assistant Department Head**, Testing and Evaluation Department; **USDA-Center for Medical, Agricultural, and Veterinary Entomology Affiliate**. Conduct vector control research on products/equipment used to control insects (e.g., mosquitoes, sand flies, filth flies) and other arthropods (e.g., ticks, mites) of medical and veterinary importance. Conduct collaborative research for the Deployed War-Fighter Protection Program with the United States Department of Agriculture and domestic/international mosquito control districts. Teach courses related to the identification/biology of medically important insects, shipboard pest management, and pesticide applicator certification courses for insect pest management.

2005-2009

SWEET BRIAR COLLEGE

- Position Held: **Monarch Butterfly Survey Project Coordinator**
- Duties: Survey monarch butterfly host plants, eggs, larvae and tag adult monarchs in research plot located in Cross Creek, Florida. Prepare and submit data for on-going monarch migration/ecological research.

2007-2008

UNIVERSITY OF FLORIDA, INSTITUTE OF FOOD AND AGRICULTURAL SCIENCES

- Position Held: **Biological Control Technician**
- Duties: Acquire/collate high quality images of arthropod parasitoids and pathogens for use in a new Image Gallery CD. Also prepared species descriptions to accompany the images.

2007

FLORIDA MUSEUM OF NATURAL HISTORY, MCGUIRE CENTER FOR LEPIDOPTERA RESEARCH AND BIODIVERSITY

- Position Held: **Genetics Lab Manager**

- Duties: Organize, conduct experiments, and maintain genetics lab; process insect specimens.

2005-2007

FLORIDA MUSEUM OF NATURAL HISTORY, MCGUIRE CENTER FOR LEPIDOPTERA RESEARCH AND BIODIVERSITY

- Position Held: **Research Assistant**
- Duties: Organize, develop, and conduct experiments in genetics lab; process Lepidoptera specimens; public outreach.

2002-2004

FLORIDA STATE COLLECTION OF ARTHROPODS, DEPARTMENT OF PLANT INDUSTRY

- Position Held: **Laboratory Technician I**
- Duties: Process, identify, and integrate insects into the collection.

2002

UNIVERSITY OF FLORIDA, ENTOMOLOGY AND NEMATOLOGY DEPARTMENT

- Position Held: **Outreach Coordinator**
- Duties: Lecture to grade school/high school teachers and students, organize school visits to the Entomology and Nematology Department, set up booths at fairs, provide presentations to instructors on how to teach entomology to children.

2001-2006

UNIVERSITY OF FLORIDA, ENTOMOLOGY AND NEMATOLOGY DEPARTMENT

- Positions Held: **Instructor**
- Courses Taught:
 - Immature Insects (graduate level)
 - Insect Classification (undergraduate/graduate level)
 - Principles of Entomology (undergraduate level)
- Duties: Develop Immature Insects course; lecture, organize laboratories, and develop/grade assignments, quizzes and exams, build and maintain insect teaching collections, lead collecting/field trips and secure permits for collecting trips to state parks and preserves.

2000

MILWAUKEE PUBLIC MUSEUM

- Position Held: **Curator I**
- Duties: Curate, identify, and integrate Lepidoptera into museum's collection. Organize museum collection into phylogenetic order. Maintain live butterfly pupae and adults in the museum's Puelicher Butterfly Wing exhibit. Maintenance of plants in exhibit and greenhouse. Develop educational displays for live butterfly exhibit.

1997-2000

THE NATURE CONSERVANCY – WISCONSIN CHAPTER

- Position Held: **Lepidoptera Inventory Specialist**
- Duties: Monitor 'special concern' butterflies/skippers and modify/develop monitoring protocols for them on Nature Conservancy preserves. Monitor the federally endangered Karner Blue (*Lycaeides melissa samuelis* Nabokov) on Nature Conservancy preserves and other properties owned by partners of the Karner Blue Habitat Conservation Plan. Served on Karner Blue Habitat Conservation Plan Trigger Points Team to develop 'red flag' objectives for the plan.

1997-2000**UNIVERSITY OF WISCONSIN-MADISON**

- Position Held: **Museum Technician**
- Duties: Curate and identify insects for Department of Natural Resources and University of Wisconsin Insect Research Collection.

1998**THE NATURE CONSERVANCY – MINNESOTA CHAPTER**

- Position Held: **Lepidoptera Inventory Specialist**
- Duties: General Lepidoptera surveys on selected Nature Conservancy preserves.

CURRENT AFFILIATIONS AND APPOINTMENTS**Old Dominion University**

Adjunct Assistant Professor
College of Health Sciences
School of Community & Environmental Health
Norfolk, VA,
jdunford@odu.edu

University of Florida

Courtesy Assistant Professor
Emerging Pathogens Institute
Gainesville, FL
dunford@phhp.ufl.edu

Defense Institute for Medical Operations

Instructor
Lackland Air Force Base
San Antonio, TX

Walter Reed Biosystematics Unit

Researcher
Smithsonian Institution
Suitland, MD

U.S. Navy Global Health Specialist Program

Associate
Falls Church, VA

University of Florida

Research Associate
McGuire Center for Lepidoptera and Biodiversity
Florida Museum of Natural History
dunford@phhp.ufl.edu

Florida State Collection of Arthropods-Department of Plant Industry

Research Associate
Gainesville, FL

ADDITIONAL MILITARY LEADERSHIP POSITIONS HELD

- **Division Officer**, India Company, Naval Officer Development School, 2008, Newport, Rhode Island
- **Officer in Charge**, Cooperative Medical Assistance Team, Operation Enduring Freedom 2010, Afghanistan
- **Theater Entomologist**, Operation Enduring Freedom 2010, Afghanistan
- **Legal Officer**, Navy and Marine Corps Public Health Center, 2016 to 2018
- **US Navy Assistant Specialty Leader-Entomology**, 2017 to 2019
- **US Navy Specialty Leader-Entomology**, 2019-2022
- **Operations Committee member**, Armed Forces Pest Management Board, 2019-2022
- **Research, Development, Testing and Evaluation Committee member**, Armed Forces Pest Management Board, 2019-2023

MILITARY DEPLOYMENTS

- Operation Enduring Freedom, Afghanistan, 2010
 - Positions: **Cooperative Medical Assistance Team Entomologist**. Assigned to multidiscipline team that led subject matter expert exchanges and veterinary capacity events with host nation leadership, veterinarians, NGOs, and experts from the National Malaria and Leishmania Control Program.
 - **Afghanistan Theater Entomologist, US Army 62nd Medical Brigade**. Oversight and operational planning of Afgan Theater DoD regional entomologists and DoD contractors in charge of pest management programs across all US/NATO led installations, forward operating bases and combat outposts.
- Continuing Promise, USNS COMFORT (TAH-20), 2015
 - Position: **Entomologist** assigned to the Directorate for Public Health supporting humanitarian/civic assistance missions in SOUTHCOM AOR. Led subject matter expert exchanges with vector control specialists and host nation ministries of health in 11 countries (Belize, Columbia, Dominica, Dominican Republic, El Salvador, Guatemala, Haiti, Honduras, Jamaica, Nicaragua, and Panama) during the six-month mission.

CERTIFICATIONS AND TRAINING

- Operational Entomology Training, May 2008
- Lee County Mosquito Control training, August 2009
- Certified Pesticide Applicator-Department of Defense (2008-current)
- Shipboard Pest Management Specialist Certification (2008-current)

PUBLICATIONS (REFEREED)

- **Dunford, J. C.**, Wilkerson, R.C., Foley, D .H., Tageldin, R., Nour El-Din, E.M., Obenauer, P.J., Watany, N., Fakoli, L.S., Hoel, D.F., Bolay, F.K., Diclario, J.W. Updated checklist and new country records for the mosquitoes (Diptera: Culicidae) of Liberia. [in prep]
- Addo, S.O., Ama Baako, B.O., Bentil, R.E., Addae, C.A., Behene, E., Asoala, V., Sallam, M., Mate, S., **Dunford, J.C.**, et. al. First molecular identification of *Anaplasma capra* and *Ehrlichia minasensis* in ticks from Kassena-Nankana, Ghana. Journal of Medical Entomology. [under review]
- Addo, S.O., Ama Baako, B.O., Bentil, R.E., Addae, C.A., Behene, E., Asoala, V., Sallam, M., Mate, S.,

- Dunford, J.C.**, et. al. Seasonal distribution and predilection sites of ticks infesting livestock in Kassena-Nankana, Ghana. *Veterinary Medicine and Science*. [under review]
- Addo, S.O., Ama Baako, B.O., Bentil, R.E., Addae, C.A., Behene, E., Asoala, V., Sallam, M., Mate, S., **Dunford, J.C.**, et. al. 2023. First record of *Babesia* and *Theileria* parasites in ticks from Kassena-Nankana, Ghana. *Medical and Veterinary Entomology*. DOI: [10.1111/mve.12688](https://doi.org/10.1111/mve.12688)
 - Celone, M., Potter, A., Barbara, H.A., Beeman, S.P., Okech, B., Forshey, B., **Dunford, J.**, Rutherford, G., Mita-Mendoza, N.K., Estallo, E.L., Khouri, R., de Siqueira, I.C., Petersen, K., Maves, R.C., Anyamba, A., Pollett, S. 2023. A geopositioned, evidence-graded, pan-species compendium of Mayaro Virus occurrence. *Nature Scientific Data*. 10: 460. <https://doi.org/10.1038/s41597-023-02302-z>
 - Addo, S.O., Ama Baako, B.O., Bentil, R.E., Addae, C.A., Behene, E., Asoala, V., Sallam, M., Mate, S., **Dunford, J.C.**, et. al. 2023. Occurrence of *Rickettsia* spp. and *Coxiella burnetii* in ticks in Kassena-Nankana, Ghana. *Experimental and Applied Acarology*. <https://doi.org/10.1007/s10493-023-00808-0>.
 - Addo, S.O., Ama Baako, B.O., Bentil, R.E., Addae, C.A., Behene, E., Asoala, V., Sallam, M., Mate, S., **Dunford, J.C.**, et. al. 2023. Molecular survey of *Anaplasma* and *Ehrlichia* species in livestock ticks from Kassena-Nankana, Ghana; with a first report of *Anaplasma capra* and *Ehrlichia minasensis*. *Archives of Microbiology*. 205:92 <https://doi.org/10.1007/s00203-023-03430-1>.
 - Jensen, L., Stubner, A., Sharp, J., English, J., **Dunford, J.C.**, and N. C. Schaal. 2023. Assessment of dermal and inhalation exposure to permethrin during field treatment of military uniforms. *Military Medicine* 188, 1/2:e228.
 - Celone, M., Pecor, D., Potter, A. Richardson, **Dunford, J.** and S. Pollet. 2022. An ecological niche model to predict the geographic distribution of *Haemagogus janthinomys*, Dyar, 1921 a Yellow Fever and Mayaro Virus vector, in South America. *PLoS Neglected Tropical Diseases*. 16(7): e0010564. <https://doi.org/10.1371/journal.pntd.0010564>.
 - Corrigan, J. Marion, B., English, J., Eneku, W., Weng, J.L., Rugg, M., Dotrang, T., **Dunford, J.**, Byaruhanga, A.M., Byarugaba, D.K., Ramalho-Ortigao, M., and Wanja, E.W. 2022. Minimal Rickettsial Infection Rates and Distribution of Ticks in Uganda: An Assessment of the Seasonal Effects and Relevance to Tick-Borne Disease Risk in East Africa. *Journal of Medical Entomology*. 1–8: <https://doi.org/10.1093/jme/tjac166>.
 - Celone, M., Okech, B., Han, B.A., Forshey, B.M., Anyamba, A., **Dunford, J.**, et al. 2021. A systematic review and meta-analysis of the potential nonhuman animal reservoirs and arthropod vectors of the Mayaro virus. *PLoS Neglected Tropical Diseases* 15(12): e0010016. <https://doi.org/10.1371/journal.pntd.0010016>.
 - **Dunford, J.C.**, Estep, A.S., Waits, C.M., Richardson, A.G., Hoel, D.F., Horn, K., Walker, T.W., Blersch, J.S., Kerce, J.D., and R.A. Wirtz. 2018. Evaluation of the long-term efficacy of K-Othrine® PolyZone on three surfaces against laboratory reared *Anopheles gambiae* Giles in semi-field conditions. *Malaria Journal*: 17:94 <https://doi.org/10.1186/s12936-018-2239-z>.
 - White, S. K. Lednicky, J.A., Okech, B.A., Morris Jr., J.G., and **J.C. Dunford**. 2018. Detection and Sequencing of Spondweni virus in field-caught *Culex quinquefasciatus* mosquitoes, Haiti 2016. *Emerging Infectious Diseases*. 24 (9) 1765-1767.

- White, S. K., Mavian, C., Salemi, M., Morris Jr., J. G., Okech, B.A., Lednicky, J.A., and **J.C. Dunford**. 2018. A new “American” subgroup of African-lineage chikungunya virus detected in and isolated from mosquitoes collected in Haiti, 2016. *PLOS Neglected Tropical Diseases*. 13(5). <https://doi.org/10.1371/journal.pone.0196857>
- Brower, L.P., Williams E.H., Dunford K. R., **Dunford, J.C.**, Knight A.L., Daniels J., Cohen J.A., Van Hook T., Saarinen E., Standridge M.J., Epstein S.W., Zalucki M.P., and S.P. Malcolm. 2018. A 36-year census of spring monarch butterflies in north-central Florida. *Journal of Natural History*. 52 (31) 2025-2046.
- **Dunford, J.C.**, Kronmann, K.C., Peet, L.R., and J.D. Stancil. 2016. Honey bee swarms aboard the USNS COMFORT: Recommendations for sting prevention, swarm removal, and medical readiness on military ships. Oct-Dec. Issue. *The United States Army Medical Department Journal*.
- **Dunford, J.C.**, Somma, L.A, and D. Serrano. 2016. Current disposition of earwigflies, *Merope tuber* Newman and *Austromerope poultoni* Killington (Mecoptera: Meropeidae), in the Florida State Collection of Arthropods. *Insecta Mundi*: 0467. 1-14.
- **Dunford, J.C.**, Falconer, A., Leite, L.N., Wirtz, R.W., and W.G. Brogdon. 2016. Determination of insecticidal effect (LC₅₀ and LC₉₀) of organic fatty acids mixture (C8910+silicone) against *Aedes aegypti* and *Aedes albopictus* (Diptera: Culicidae). *Journal of Medical Entomology* 53(3): 699-702. doi: 10.1093/jme/tjv239.
- Hoel, D.F., **Dunford, J.C.**, Kline, D.L., Irish, S.R., Weber, M., Richardson, A.G., Doud, C.W., and R.A. Wirtz. 2015. A comparison of carbon dioxide sources for mosquito capture in CDC traps on the Florida Gulf Coast. *Journal of the American Mosquito Control Association*: 31(3): 248-257.
- **Dunford, J.C.**, Wirtz, R.A., Reifenrath, W.G., Falconer, A., Leite, L.N., and W.G. Brogdon. 2014. Determination of insecticidal effect (LCD₅₀ and LCD₉₀) of organic fatty acids mixture (C8910+silicone) against malaria vectors. *Journal of Parasitology and Vector Biology* 6(9): 131-141.
- **Dunford, J.C.**, Stoops, C.A., Estep, A.S., Britch, S.C., Richardson, A.G., Walker, T.W., Farooq, Hoel, D.F., Platt, R.R., Smith, V.M., Wirtz, R.A., and J.D. Kerce. 2014. SR450 Superhawk XP applications of *Bacillus thuringiensis israelensis* de Barjac against *Culex quinquefasciatus* Say. *Journal of the American Mosquito Control Association* 30(3): 191-198.
- **Dunford, J.C.**, J.C. Turbyville, and J.M. Leavengood, Jr. 2014. Checklist of Medically Important Hymenoptera of Afghanistan. *Insecta Mundi* 0339. 1-13.
- Hoel, D.F., Marika, J.A., **Dunford, J.C.**, Irish, S.E., Geier, M., Obermayr, U., and R.A. Wirtz. 2014. Optimizing collection of *Anopheles gambiae* s.s. (Diptera: Culicidae) in Biogent Sentinel traps. *Journal of Medical Entomology* 51(6): 1268-1275.
- Somma, L.A., **Dunford, J.C.**, and D. Serrano. 2014. The Mecoptera Collection of the Florida State Collection of Arthropods: Scorpionflies, Hangingflies, Earwigflies, and Allies. *Southeastern Biology* 61: 110-113.
- **Dunford, J.C.**, Hoel, D.F., Hertz, J. C., England, D.B., Dunford, K.R., Stoops, C.A., Szumlas, D. E., and J.A. Hogsette. 2013. Evaluation of imidacloprid-treated traps as an attract and kill system for filth flies during contingency operations. *The United States Army Medical Department Journal*. April-June: 73-79.

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- Somma, L.A., Cresswell S., and **J.C. Dunford**. 2013. Rediscovery of the Florida scorpionfly, *Panorpa floridana* Byers (Mecoptera: Panorpidae). *Insecta Mundi* 303: 1-5.
- Turbyville, J.C., Dunford, J.C., and M.R. Nelson. 2013. Hymenoptera of Afghanistan and the central command area of operations: assessing the threat to deployed U.S. service members with insect venom hypersensitivity. *Allergy and Asthma Proceedings* 34: 179-184.
- Colacicco-Mayhugh, M.G., Gosine, S., Hughes, T., DiClaro, J., Larson, R. and **J. Dunford**, 2012. Military Entomology in Operation Enduring Freedom, 2010-2011. *The United States Army Medical Department Journal*. July-September: 29-35.
- Somma, L.A. and **J.C. Dunford**. 2012. Florida Scorpionfly, *Panorpa floridana* Byers (Insecta: Mecoptera: Panorpidae). Publication # EENY-538. Institute of Food and Agricultural Sciences Extension, University of Florida, Gainesville. 4 pp.
- Somma, L.A. and **J.C. Dunford**. 2012. Florida Scorpionfly *Panorpa floridana* Byers. EENY-538. In: D. Hagen and S. Gildersleve (eds.), *Featured Creatures EDIS*. Institute of Food and Agricultural Sciences Extension, University of Florida, Gainesville. Online: <http://edis.ifas.ufl.edu/in949>.
- Somma, L.A. and **J.C. Dunford**. 2012. Florida Scorpionfly - *Panorpa floridana* Byers. EENY-538. In: J. L. Gillett-Kaufman (ed.), *Featured Creatures*. Department of Entomology and Nematology, IFAS, University of Florida, and Florida Department of Agriculture and Consumer Services, Division of Plant Industry, Gainesville. Online: <http://entnemdept.ufl.edu/creatures/MISC/scorpionfly.htm>.
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- **Dunford, J.C.**, M.A. Branham, and J.M. Leavengood, Jr. 2008. Additional notes on aposematic insects at Archbold Biological Station, Florida, with comments on the arrival of the invasive lovebug, *Plecia nearctica* (Diptera: Bibionidae). *Journal of Entomological Science* 43: 337-343.
- **Dunford, J.C.** and G.T. Austin. 2007. Nomenclatural *faux pas* for *Speyeria atlantis greyi* Moeck, 1950 (Lepidoptera: Nymphalidae). *Insecta Mundi* 17:1-4.
- **Dunford, J.C.**, P.W. Kovarik, L.A. Somma, and D. Serrano. 2007. First state records for *Merope tuber* (Mecoptera: Meropeidae) in Florida and biogeographical implications. *Florida Entomologist* 90: 581-584.
- **Dunford, J.C.**, and W.E. Steiner, Jr. 2007. *Leichenium canaliculatum variegatum* (Klug). University of Florida, Florida Cooperative Service, Institute of Food and Agricultural Sciences Extension Publication

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- **Dunford, J.C.**, and P.E. Kaufman. 2006. *Alphitobius diaperinus* (Panzer). University of Florida, Florida Cooperative Service, Institute of Food and Agricultural Sciences Extension Publication EENY-367. Also *In*: T. R. Fasulo (ed.), *Featured Creatures* [online]. Available on URL: <http://creatures.ifas.ufl.edu/main>. Department of Entomology and Nematology, IFAS, University of Florida, and Department of Agriculture and Consumer Services, Division of Plant Industry, Gainesville.
- **Dunford, J.C.**, L.A. Somma, and D. Serrano. 2006. Earwigflies in the Great Smokies. *Southeastern Biology* 53: 27-29.
- **Dunford, J.C.**, D.K. Young, and S.J. Krauth. 2006. *Stethobaris ovata* (LeConte) (Curculionidae) on eastern prairie fringed orchid [*Platanthera leucophaea* (Nuttall) Lindley] in Wisconsin. *The Coleopterists Bulletin* 60: 51-52.
- **Dunford, J.C.** 2005. Chasing greater fritillaries: The rise of Atlantis. *American Butterflies* 13: 14-25.
- **Dunford, J.C.**, and R.J. Ekin. 2005. Greater Fritillaries at three localities in the Humboldt National Forest, Nevada. *American Butterflies* 13: 26-32.
- **Dunford, J.C.**, and K.A. Barbara. 2005. *Pseudosphinx tetrio* (F). University of Florida, Florida Cooperative Service, Institute of Food and Agricultural Sciences Extension Publication EENY-344. Also *In*: T. R. Fasulo (ed.), *Featured Creatures* [online]. Available on URL: <http://creatures.ifas.ufl.edu/main>. Department of Entomology and Nematology, IFAS, University of Florida, and Department of Agriculture and Consumer Services, Division of Plant Industry, Gainesville.
- **Dunford, J.C.**, and K.A. Barbara. 2004. *Diptera festiva* (F). University of Florida, Florida Cooperative Service, Institute of Food and Agricultural Sciences Extension Publication EENY-326. Also *In*: T. R. Fasulo (ed.), *Featured Creatures* [online]. Available on URL: <http://creatures.ifas.ufl.edu/main>. Department of Entomology and Nematology, IFAS, University of Florida, and Department of Agriculture and Consumer Services, Division of Plant Industry, Gainesville.
- **Dunford, J.C.**, and D.K. Young. 2004. Annotated checklist of Wisconsin darkling beetles (Coleoptera: Tenebrionidae). *Transactions of the American Entomological Society* 130 (1): 57-76.
- Farooq, M., W.C. Hoffmann, T.W. Walker, V.L. Smith, C.A. Robinson, **J.C. Dunford**, and I. W. Sutherland. 2009. Assessment and selection of samplers for objective evaluation and quantification of ULV space sprays. *Journal of American Mosquito Control Association* 25: 521-524.
- Somma, L.A. and **J.C. Dunford**. 2009. Records for *Bittacus* hangingflies and *Panorpa* scorpionflies (Mecoptera: Bittacidae and Panorpidae) in Florida. *Insecta Mundi* 0084: 1-8.
- Somma, L.A. and **J.C. Dunford**. 2009. The Florida scorpionfly, *Panorpa floridana* Byers (Mecoptera: Panorpidae). *Entomology Circular No. 420*. Florida Department of Agriculture and Consumer Services, Division of Plant Industry.
- Somma, L.A. and **J.C. Dunford**. 2008. Preliminary Checklist of the Mecoptera of Florida: Earwigflies, Hangingflies, and Scorpionflies. *Insecta Mundi* 42: 1-12.4

- Somma, L.A. and **J.C. Dunford**. 2007. Etymology of the earwigfly, *Merope tuber* Newman (Mecoptera: Meropeidae): Simply dull or just inscrutable? *Insecta Mundi* 13: 1-5.
- Cuda, J.P., **J.C. Dunford**, and J.M. Leavengood. 2007. Invertebrate fauna associated with torpedograss *Panicum repens* (Cyperales: Poaceae), in Lake Okeechobee, Florida, and prospects for biological control. *Florida Entomologist* 90: 238-248.
- Schiefer, T.L., and **J.C. Dunford**. 2006. New State Record for *Merope tuber* Newman (Mecoptera: Meropeidae) in Alabama. *The Journal of Entomological Science* 40: 471-473.

BOOK CHAPTERS

- **Dunford, J.C.** and K. R. Sims. 2008. Greater Fritillaries or Silverspots, *Speyeria* [= *Argynnis*] (Lepidoptera: Nymphalidae). Pp. 1718-1722. In J. L. Capinera (ed). *Encyclopedia of Entomology*. 2nd Edition. Vol. 2. D-K. Springer, [Dordrecht].
- Dunford, J.C. and L.A. Somma. 2008. Scorpionflies (Mecoptera). Pp. 3304-3310, pl. 97. In J. L. Capinera (ed.), *Encyclopedia of Entomology*. Second Ed. Vol. 4. S-Z. Springer, [Dordrecht].
- **Dunford, J.C.**, L.A. Somma, and D. Serrano. 2008. Earwigflies (Mecoptera: Meropeidae). Pp. 1261-1264. In J. L. Capinera (ed.), *Encyclopedia of Entomology*. Second Ed. Vol. 2. D-K. Springer, [Dordrecht].
- Somma, L.A. and **J.C. Dunford**. 2008. Newman, Edward. Pp. 2607-2609. In J. L. Capinera (ed.), *Encyclopedia of Entomology*. Second Ed. Vol. 3. L-R. Springer, [Dordrecht].

BOOK REVIEWS

- **Dunford, J.C.** 2002. Book Review. *Journal of the Lepidopterists' Society* 56 (3): 182-183. [Glassberg, J. 2002. *Butterflies through binoculars-The West*. Oxford University Press, New York, NY.]
- **Dunford, J.C.**, and L.S. Long. 2002. Book Review. *Florida Entomologist* 85 (1): 298-299. [Castner, J. L. 2000. *Photographic atlas of entomology and guide to insect identification*. Feline Press, Gainesville, FL.]

ARTICLES AND REPORTS (NON-REFEREED)

- **Dunford, J.C.** 2019. USU faculty advance public health capabilities, develop training and vector management plan for Suriname. *The Pulse*, Uniformed Services University. 21 August.
- **Dunford, J.C.** 2017. Navy Entomologist and University of Florida professors track mosquitoes and pathogens in the Caribbean. *Navy and Marine Corps Public health Center Newsletter*. Summer Edition.
- **Dunford, J.C.** 2016. Controlling a formidable adversary: Disease-transmitting *Aedes* mosquitoes. *Navy Medicine Live*, July.
- **Dunford, J.C.**, Dunford, K.R., Bodven, N., and G. Edwards. 2016. Resident monarchs in southwest Florida: Viable populations or vectors of disease? *The Southwest Florida Monarch Monitoring Program*. Vol. 58; 3. *News of the Lepidopterists' Society*.

- **Dunford, J.C.**, Wilson, W. and J. Bullock. 2015. Preventive medicine personnel deployed in support of CP-15. Bug Bytes, Navy Environmental Preventive Medicine Unit Two December.
- **Dunford, J.C.** 2014. Backyard bugs to global health: Curiosity leads to rewarding Navy career. Navy Medicine Live, December.
- **Dunford, J.C.** 2014. NEPMU-2 Entomology Technical Assists Visit: CSL Comalapa, El Salvador. Bug Bytes, Navy Environmental Preventive Medicine Unit Two 8(3): 2.
- **Dunford, J.C.** 2014. Evaluation of novel insecticides and repellents at Centers for Disease Control and Prevention, Atlanta. Bug Bytes, Navy Environmental Preventive Medicine Unit Two 8(3): 6.
- **Dunford, J.C.**, Prendergast, B.F., Palmer, T.W., and K.A. Barbara. 2014. Asian tiger mosquito- nuisance and disease vector. The Skeeter, Virginia Mosquito Control Association 74:12-13.
- **Dunford, J.C.** 2014. Stress is making me itchy: Delusory Parasitosis. Bug Bytes, Navy Environmental Preventive Medicine Unit Two 7: 2.
- **Dunford, J.C.** 2014. Chikungunya Virus: On the doorstep of the United States. Bug Bytes, Navy Environmental Preventive Medicine Unit Two 7: 4.
- Somma, L.A., **J.C. Dunford**, and D. Serrano. 2014. The Mecoptera Collection of the Florida State Collection of Arthropods: Scorpionflies, Hangingflies, Earwigflies, and Allies. Southeastern Biology 61: 110-113.
- Hoel, D., **J. Dunford**, D. Szumlas, C. Stoops, and R. Wirtz. 2013. Navy entomologists assist CDC's fight against malaria. Wing Beats 24: 25-32.
- **Dunford, J.C.** 2012. Navy entomologist mentors college students on insects, public health. Navy Medicine Live December.
- **Dunford, J.C.** 2012. Navy entomologist's journey leads to CDC. The Insider 3 (3): 8.
- **Dunford, J.C.**, and S.J. Krauth. 2005. Neither fly nor earwig: Earwigflies in Wisconsin. Wisconsin Entomological Society Newsletter 32: 3-4.
- **Dunford, J.C.**, L.A. Somma, and D. Serrano. 2005. Earwigflies in the Great Smokies. All Taxa Biodiversity Survey Quarterly 6: 1.
- Barbara, K.A., E.A. Buss, and **J.C. Dunford**. 2004. Nematodes for hire: economical ways and greener days using integrated pest management. Florida Turf Digest 21 (5) 14-20.
- **Dunford, J.C.** 2003. Butterfly beginnings. Butterfly Gardener (North American Butterfly Association) 8 (1): 4-5.
- **Dunford, J.C.** 2001. Garden dreams. Butterfly Gardener (North American Butterfly Association) 6 (1): 5.
- **Dunford, J.C.** 2000. Tracking skippers on Conservancy prairies. The Nature Conservancy Spring Newsletter.

- Hoel, D., P. Obenauer, R. Burrus., **J. Dunford**, J. Hertz, J. Diclaro, and S. Cope. 2008. Forging the future of Navy Entomology at the University of Florida. *Wing Beats* 19: 4-10.
- Young, D.K., **J.C. Dunford**, and A.E. Crosson. 1999. Pollination and other insect interactions of the eastern prairie fringed orchid (*Platanthera leucophaea* (Nuttall) Lindley) in Wisconsin. United States Fish and Wildlife Service Report, Chicago, Illinois.

GRANTS AND SCHOLARSHIPS

*Current: PI/CO-PI of 6 grants totaling \$930K

2017 Project PI; Awarded \$50K from Armed Forces Health Surveillance Branch-Global Emerging Infections Surveillance Program to conduct arbovirus surveillance and detection using PCR virus isolation methods in Central America/Caribbean.

2017 Project PI; Awarded \$162K from Armed Forces Health Surveillance Branch-Global Emerging Infections Surveillance Program to conduct disease ecology research in Central America/Caribbean on mosquito vectors of dengue, chikungunya, and Zika viruses.

2016 Project AI; Awarded \$168.5K from Naval Medical Center-Portsmouth Clinical Investigation Department to conduct insect repellent preference study in military and dependent populations.

2016 Project PI; Awarded \$238K from Armed Forces Health Surveillance Branch-Global Emerging Infections Surveillance Program to conduct disease ecology research in Central America/Caribbean on mosquito vectors of dengue, chikungunya, and Zika viruses.

2012 Project PI; Awarded \$50K endowment from Emery Oleochemicals and Pulcra Chemicals to hire and advise two laboratory assistants at Centers for Disease Control and Prevention, Atlanta, GA

2005 University of Florida College of Agriculture and Life Sciences Jack L. Fry Teaching Excellence Award and Scholarship

- Amount: \$1,000.00

2005 Florida Entomological Society Scholarship

- Amount: \$500.00
- Purpose: To fund portion of Ph.D. research.

2005 Florida Entomological Society Research Mini Grant

- Amounts: \$100
- Purpose: To fund purchase of supplies for Ph.D. research.

2005 Travel Stipend from University of Florida College of Agriculture and Life Sciences Dean's Office

- Amount: \$615.00
- Purpose: To travel to North American Colleges and Teachers of Agriculture 2005 national meeting

2004-2007 United States Navy Healthcare Collegiate Scholarship

- Amount: \$25,000/yr
- Purpose: To fund portion of Ph.D. research.

2004 North American Colleges and Teachers of Agriculture Registration Scholarship – College of Agriculture and Life Sciences, University of Florida

- Amount: \$175.00
- Purpose: To attend 2004 NACTA conference

2003 American Museum of Natural History, Theodore Roosevelt Memorial Fund

- Amounts: \$1,500
- Purpose: To fund research for Ph.D. research.

2003 Florida Entomological Society Research Mini Grant

- Amounts: \$100
- Purpose: To fund purchase of supplies for Ph.D. research.

2002 American Museum of Natural History, Theodore Roosevelt Memorial Fund

- Amounts: \$1,095
- Purpose: To fund research for Ph.D. research.

2002 Florida Entomological Society Research Mini Grant

- Amounts: \$100
- Purpose: To fund purchase of supplies for Ph.D. research.

2002 South Florida Water Management District Grant

- Amount: \$7,500
- Purpose (Torpedograss survey under Dr. James P. Cuda): To fund faunal/pathogen survey and identification of organisms associated with torpedograss (*Panicum repens*) for potential biological control use. Hire and train undergraduate employees.

1999 United States Fish And Wildlife Service Grant

- Amount: \$13,786.41
- Purpose: To fund research project on the federally endangered Eastern Prairie Fringed Orchid (*Platanthera leucophaea* (Nuttall) Lindley) and its pollinators.

1999 Lois Almon Small Grants And Research Program

- Amounts: \$1,000
- Purpose: To fund fieldwork for Master's project.

1998 Lois Almon Small Grants And Research Program

- Amounts: \$1,000
- Purpose: To fund fieldwork for Masters project.

PERSONAL AWARDS

2023 Meritorious Unit Commendation

2020 Defense Meritorious Service Medal (second medal)

2018 Meritorious Service Medal

2018 Navy and Marine Corps Public Health Center 2017 Officer of the Year

(<https://www.entsoc.org/dunford-honored-navy-and-marine-corps-public-health-center>)

2016 Navy and Marine Corps Commendation Medal (fourth medal)

2015 Navy and Marine Corps Commendation Medal (third medal)

2013 Centers for Disease Control and Prevention, Excellence in Partnering Award
(<https://www.entsoc.org/member-news/james-dunford-receives-global-health-honor-award>)

2013 Navy and Marine Corps Commendation Medal (second medal)

2011 Navy and Marine Corps Commendation Medal

2010 Defense Meritorious Service Medal

2008 Inducted into The Honor Society of Agriculture, Gamma Sigma Delta, University of Florida Chapter

2008 The National Scholars Honor Society Recognition of Personal and Academic Excellence award

2005 North American Colleges and Teachers of Agriculture Graduate Student Teaching Excellence Award

2005 University of Florida College of Agriculture and Life Sciences Jack L. Fry Teaching Excellence Award

2002 University of Florida Outstanding Student Presidential Recognition

2002 University of Florida Entomology and Nematology Department Teacher of the Year Award

PROFESSIONAL CONSULTATIONS/HONORARIUMS RECEIVED

2017

Old Dominion University, Virginia Modeling, Analysis and Simulation Center
Assisted in development of 'serious' video game on Zika virus prevention.

2009

Dow AgroSciences (France)
Provided darkling beetle images for stored products pest chemical advertisement entitled: *Le Cornu et le Palorus, à ne pas confondre avec les Triboliums*

2009

British Broadcasting Company
Technical Consultant for monarch handling/filming for program entitled 'Life'; will air on the **Discovery Channel**
January 2010

2008

Alpharma Inc.
Provided professional images of darkling beetles for brochures

2008

National Geographic Kids Magazine
Scientific Consultant for articles on butterflies

2007

m360 Graphic Design Group, Nottingham, England
 Provided professional images of darkling beetles

2007

National Geographic Kids Magazine

Entomologist consultant for "Poisonous Butterflies" *Weird But True* feature article written by Jeffrey Wandel for *National Geographic Kids Magazine*

2004

Southern Living Magazine

Reviewed and edited article: Jones, S.A. 2004. Colors on the fly. Southern Living, Time Inc., September 2004, p 46.

2004

The Jeff Corwin Experience

Consultation provided for Luna moth, *Actias luna* (L.), segment on *The Jeff Corwin Experience*, Tigress Productions, U.K.

INVITED PRESENTATIONS

- 2023-Schluep, S., Sutherland, I. and **Dunford, J.** Efficacy of Factory Permethrin-Treated Military Uniforms in Reducing Mosquito Biting Rates Under Semi-Field Conditions. Indo-Pacific Military Health Exchange, Kuala Lumpur, Malaysia.
- 2023-Schluep, S., Gibson-Weston, J., **Dunford, J.**, and I. Sutherland. Evaluation of the LightsOut™ "Lab-In-A-Bag" Pesticide Efficacy Testing Kit for Bed Bugs. Indo-Pacific Military Health Exchange, Kuala Lumpur, Malaysia.
- 2022-**Dunford, J.**, Salyer, A., Cilek, J., and I. Sutherland. Evaluation of Pesticide-infused Barrier Screen for Localized Reduction of Mosquitoes in Deployed Settings. 44th ICMM World Conference of Military Medicine, Brussels, Belgium.
- 2022-Schluep, S., Salyer, A., Underwood, J., **Dunford, J.**, and I. Sutherland. Development of Field-Deployable Insecticide Resistance Testing Kits for Operational Conditions. 44th ICMM World Conference of Military Medicine, Brussels, Belgium.
- 2022- Schluep, S., Gibson-Weston, J., Salyer, A., **Dunford, J.**, and I. Sutherland. Evaluation of Lab-in-a-Bag Insecticide Susceptibility Kit for Military Use. 44th ICMM World Conference of Military Medicine, Brussels, Belgium.
- 2019-Jensen, L, Stubner, A., **Dunford, J.**, Sharp, J., Schaal, N., and J. English. Multi-route exposure assessment of permethrin during field treatment of military uniforms using the 2-gallon hand sprayer and AG sprayer. Environmental Science and Engineering Officer Meeting, Bethesda, MD. [https:// doi.org/10.7490/f1000research.1116896.1](https://doi.org/10.7490/f1000research.1116896.1).
- 2018-**Dunford, J.C.** The Business Challenges Of Pest Management On The Battlefield. Department of Defense Triennial Pest Management Workshop. San Antonio, Texas.

- 2018-**Dunford, J.C.** Vector-borne diseases in a changing climate. Virginia Clinicians for Climate Action. Richmond, Virginia.
- 2018-**Dunford, J.C.** U.S. Navy Zika Response: Lessons learned and closing the gaps. Navy and Marine Corps Public Health Center Public Health Talks Series. Portsmouth, Virginia.
- 2017-**Dunford, J.C.** Zika response in the U.S.: Disease surveillance, vector control, and prevention policy from U.S. Navy perspective. Entomology Society of America Annual Meeting, Denver, Colorado.
- 2017-**Dunford, J.C.** Climate Change and Disease Vectors: Implications for Public Health and Military Operations. U.S. Army Environmental Impacts to Health Readiness Working Group Meeting, Arlington, Virginia.
- 2017-**Dunford, J.C.** Navy Entomology Response to Zika: Lessons Learned and Way Ahead. Armed Forces Pest Management Board Meeting, Silver Spring, Maryland.
- 2017-White, S.K., J.A. Lednicky, J.G. Morris, Jr., **J.C. Dunford**, and B.A Okech. Detection of Chikungunya-, Dengue- and Zika viruses in mosquitoes collected in Haiti, 2016. University of Florida Emerging Pathogens Institute Research Days, Gainesville, Florida.
- 2016-**Dunford, J.C.** Navy Entomology during Continuing Promise 2015: Strengthening international partnerships and advancing global public health. Entomological Society of America-International Congress of Entomology, Orlando, Florida.
- 2016-Waits, C., **J.C. Dunford**, and A. Estep. Multiple substrate comparison of K-Othrine Polyzone to deltamethrin as an IRS. Anastasia Mosquito Control District Arbovirus Surveillance and Mosquito Control Workshop. St. Augustine, Florida.
- 2015-**Dunford, J.C.** Entomological engagements delivered during CP-15. Continuing Promise 2015 Symposium. Guantanamo Bay, Cuba.
- 2013-**Dunford, J.C.** Strengthening Public Health Entomology through Partnering. 61st Annual CDC and ATSDR Honor Awards Ceremony, Atlanta, Georgia.
- 2012-Dunford, J.C. Insect vector control research and careers in public health entomology. Broward College, Davie, Florida.
- 2012-**Dunford, J.C.**, Dunford, K.R. and L.P. Brower. Monarch migration in Florida. Pine Island Garden Club, Pine Island, Florida.
- 2012-Brogdon, B. and **J.C. Dunford**. Tactical insecticide resistance surveillance with the bottle bioassay. Georgia Mosquito Control Association, Athens, Georgia.
- 2012-Hoel, D.H., **J.C. Dunford** and G.B. Schoeler. Overview of Navy Entomology and Deployed War-Fighter Protection research. Centers for Disease Control, Division of Parasitic Diseases and Malaria Seminar, Atlanta, Georgia.
- 2011-**Dunford, J.C.** Initiating a monarch tagging program in southwest Florida. Southwest Florida Butterfly Conference, Fort Myers, Florida.

- 2011-**Dunford, J.C.** Cooperative Medical Assistance Entomologist-OEF Afghanistan. Armed Forces Public Health Conference, Hampton, Virginia.
- 2011-Hughes, T. H. and **J.C. Dunford**. Putting the “integrated” back into pest management and vector control in Afghanistan. Armed Forces Public Health Conference, Hampton, Virginia.
- 2011-**Dunford, J. C.**, K. R. Dunford, and L. P. Brower. Monitoring monarchs and milkweeds-The spring remigration to north-central Florida. North American Butterfly Association, Gainesville, Florida.
- 2010, **Dunford, J. C.**, K. R. Dunford, and L. P. Brower. Monitoring monarchs and milkweeds-The spring remigration to north-central Florida. North American Butterfly Association, Fort Myers, Florida.
- 2010-**Dunford, J.C.** Cooperative Medical Assistance and Theater Entomologist-OEF Afghanistan. Deployed War fighter Protection Program Annual Review, Gainesville, Florida.
- 2010-**Dunford, J. C.**, P. J. Obenauer, A. Farajollahi, G. Williams, S. Healy, and G. Wojcik. Evaluation of spray technologies of *Bacillus thuringiensis israelensis* (*Bti*) for the control of container breeding mosquitoes. American Mosquito Control Association annual meeting, Lexington, Kentucky.
- 2010-**Dunford, J.C.**, M. Burcham, J. Wills, G. Wojcik, and B. Prendergast. Truck-mounted applications of *Bti* to control container-breeding mosquitoes. Virginia Mosquito Control Association annual meeting, Virginia Beach, Virginia.
- 2010- **Dunford, J.C.**, P.J. Obenauer, and C. A. Stoops. Feasibility of applying *Bacillus thuringiensis israelensis* (*Bti*) using ULV and thermal fog. Department of Defense Pest Management Workshop, Jacksonville, Florida.
- 2010 – **Dunford, J.C.**, P.J. Obenauer, and C. A. Stoops. Equipment evaluation and efficacy of ULV and thermal fog applications of *Bti* on container breeding mosquitoes. Mid-Atlantic Mosquito Control Association annual meeting, Savannah, Georgia.
- 2009 – **Dunford, J.C.**, P.J. Obenauer, and C. A. Stoops. Equipment evaluation and efficacy of ULV and thermal fog applications of *Bti* on container breeding mosquitoes. Deployed War fighter Protection Program Annual Review, College Station, Texas.
- 2008 – **Dunford, J. C.**, A. C. Strong, and S. K. Tripp. Efficacy of ULV applications of *Bti* on container breeding mosquitoes. Deployed War fighter Protection Program Annual Review. Gainesville, Florida.
- 2007 – **Dunford, J. C.**, W. E. Steiner, Jr., D. K. Young, and M. C. Thomas. The darkling beetles of the eastern United States (Coleoptera: Tenebrionidae). Entomological Society of America national conference, San Diego, California.
- 2007 – **Dunford, J.C.** The Genus *Speyeria* and the *Speyeria atlantis/hesperis* Complex: Species and Subspecies Accounts, Systematics, and Biogeography (Lepidoptera: Nymphalidae). Entomology and Nematology Department, Gainesville, Florida.
- 2006 – **Dunford, J.C.** Butterflies and rising temperatures: How does “global warming” affect our scaly friends? North American Butterfly Association, Manasota Chapter, Ellenton, Florida.
- 2001 - **Dunford, J.C.** Indoor gardens: butterflies promote nature education. North American

Butterfly Association, Manasota Chapter, Sarasota, Florida.

CONTRIBUTED PRESENTATIONS

- 2022-Hamilton, T., **Dunford, J.**, Sutherland, I., Schlupe, S. and A. Salyer. Warfighter, Pathogen, Vector: a synopsis of the Navy Entomology Center of Excellence. Society for Vector Ecology Annual Meeting, Honolulu, HI.
- 2021-Celone, M., Pecor, D., Potter, A., Richardson, A., **Dunford, J.**, and S. Pollett. An ecological niche model to predict the geographic distribution of *Haemagogus janthinomys*, Dyar, 1921 the yellow fever and Mayaro virus vector, in South America. Uniformed Services University Research Days, Bethesda, MD.
- 2019. **Dunford, J.C.** Vector Biology Degree Programs, Training and Research at Uniformed Services University. Society for Vector Ecology Conference, San Juan, Puerto Rico.
- 2019-Nadolny, R., Colton L., and **J.C. Dunford**. Vector-borne disease pathogen detection capabilities in the DoD. Armed Forces Pest Management Board meeting, Silver Spring, MD.
- 2019-Stephenson, C.J., Loeb, J.C., El Badry, M.A., Blohm, G.M., Mahbubul Alam, M.D., **Dunford, J.C.**, Glenn Morris, Jr., J., Lednicky, J.A., and B.A. Okech, B.A. Detection of Zika virus in field caught *Aedes aegypti* in Haiti, January to May 2017. University of Florida Emerging Pathogens Institute Research Days, Gainesville, Florida.
- 2018-White, S.K., Lednicky, J.A., Okech, B., Morris Jr., J. G., and **J.C. Dunford**. Detection and Sequencing of *Spondweni virus* in field-caught *Culex quinquefasciatus* mosquitoes, Haiti 2016. University of Florida Emerging Pathogens Institute Research Days, Gainesville, Florida.
- 2017-White, S.K., Lednicky, J.A., Morris Jr., J. G., Okech, B., and **J.C. Dunford**. Detection of Chikungunya-, Dengue-, and Zika viruses in mosquitoes collected in Haiti. Entomology Society of America Annual Meeting, Denver, Colorado.
- 2016. Hoel, D. F., **Dunford, J.C.**, Kline, D.L., Irish, S.R., Weber, M, Richardson, A.G., Doud, C.W., and R.A. Wirtz. A comparison of carbon dioxide sources for mosquito capture in CDC light traps on the Florida Gulf Coast. Society for Vector Ecology, Anchorage, Alaska.
- 2016-Moody, J.M., Brueggemeyer, M.T., Hoel, D.F., and **J.C. Dunford**. Characterization of *Aedes (Stegomyia) aegypti* and *Aedes (Stegomyia) albopictus* Populations and Chikungunya Virus Prevalence in Puerto Barrios, Guatemala. University Services University of Health Sciences Research Days, Bethesda, Maryland.
- 2011-**Dunford, J.C.** and D.F. Hoel. Overview of Navy Entomology and Deployed War-Fighter Protection Research. Centers for Disease Control and Prevention Entomology Branch Meeting, Atlanta, Georgia.
- 2011-Turbyville, J C. and **J.C. Dunford**. Hymenoptera of Afghanistan: Assessing the threat to deployed U.S. Service Members with insect venom hypersensitivity. American College of Allergies, Asthma, and Immunology annual meeting, Boston, Massachusetts.
- 2010-**Dunford, J.C.**, C.A. Stoops, P.J. Obenauer, T. W. Walker, M. Farooq, and A C. Strong. Evaluation and efficacy of ULV and thermal fog applications of *Bti* on container breeding mosquitoes. American Mosquito Control Association annual meeting, Lexington, Kentucky.

- 2010-Farooq, M., T.W. Walker, and **J.C. Dunford**. Nozzle evaluations to suit wind tunnel for efficacy bioassays of vector control pesticides. American Mosquito Control Association annual meeting, Lexington, Kentucky.
- 2009-**Dunford, J.C.** and C.A. Stoops. Efficacy of ULV applications of *Bti* on container breeding mosquitoes. *Bti*-ULV working group meeting sponsored by Valent BioSciences. Cape May, New Jersey.
- 2009-**Dunford, J.C.** Efficacy of ULV applications of *Bti* on container breeding mosquitoes. Anastasia Mosquito Control District Arbovirus Surveillance and Mosquito Control Workshop. St. Augustine, Florida.
- 2009-**Dunford, J.C.** DWFP activities at NECE. Navy and Marine Corps Public Health Conference. Hampton, Virginia.
- 2009-**Dunford, J.C.** and C.A. Stoops. Efficacy of ULV applications of *Bti* for the control of the Asian tiger mosquito. International Symposium on the Asian Tiger Mosquito. Rutgers University, New Brunswick, New Jersey.
- 2009-Linthicum, K.J., S.C. Britch, W. W. Wynn, R.C. Grubbs, J. W. Clark, C.K. Chepchieng, F.G. Ngere, V.O. Opondo, D.O. Ng'onga, F.O. Ooko, T. W. Walker, **J.C. Dunford**, M. Farooq, C.A. Robinson, V.L. Smith, and A. Anyamba. Insecticide treated camouflage screening reduces sand fly numbers in *Leishmania*-endemic regions in Kenya. The American Society of Tropical Medicine and Hygiene annual meeting. Washington, D.C.
- 2009-Farooq, M. W. Hoffmann, T. Walker, V. Smith, C. Robinson, **J. Dunford**, and I. Sutherland. Assessment and selection of samplers for objective evaluation and quantification of ULV space sprays. American Mosquito Control Association conference. New Orleans, Louisiana.
- 2009-Linthicum K., S. Britch, J. Clark, D. N'onga, F. Ngere, C. Kibet, A. Anyamba, W. Wynn, M. Farooq, V. Smith, C. Robinson, **J. Dunford**, and T. Walker. Reducing sand fly number in *Leishmania* endemic regions in Kenya with insecticide treated camouflage screening. American Mosquito Control Association conference. New Orleans, Louisiana.
- 2009- Linthicum K., S. Britch, T. Walker, B. Lothrop, M. Snelling, A. Gutierrez, M. Farooq, V. Smith, C. Robinson, H. Lothrop, W. Wynn, and **J. Dunford**. Efficacy of barrier treatments on natural populations of mosquitoes in desert habitats of California. American Mosquito Control Association conference. New Orleans, Louisiana.
- 2008 – England, B.D., **J.C. Dunford**, and J.C. Hertz. Efficacy of insecticide bait-treated filth fly traps at a municipal waste transfer site. Deployed War fighter Protection Program Annual Review. Gainesville, Florida.
- 2006 – **Dunford, J.C.**, P.Z. Goldstein, and L.D. Miller. The distribution and genitalic morphology of *Speyeria atlantis* and *Speyeria hesperis* (Nymphalidae: Heliconiinae). The Lepidopterists' Society national meeting. Gainesville, Florida.
- 2005 – **Dunford, J.C.**, and M.A. Branham. Collections-based teaching for life sciences courses. North American Colleges and Teachers of Agriculture national meeting, Wooster, Ohio.
- 2005 - **Dunford, J.C.** California's Bay Checkerspot (*Euphydryas editha bayensis*). Insect Conservation Seminar Course, University of Florida, Gainesville, Florida.

- 2004 - **Dunford, J.C.**, J.B. Heppner, and J. E. Maruniak. Review of *Speyeria* (Lepidoptera: Nymphalidae) systematics using molecular and cladistic analyses. Entomological Society of America national meeting, Salt Lake City, Utah.
- 2003 - **Dunford, J.C.** Preliminary Analysis: Phylogeny of *Speyeria* and the *S. atlantis/hesperis* complex (Lepidoptera: Nymphalidae) based on morphological and DNA sequence data with notes on the evolution and conservation of greater fritillaries. Association for Tropical Lepidoptera and The Southern Lepidopterist's Society, Gainesville, Florida.
- 2000-**Dunford, J.C.**, and D.K. Young. The darkling beetles of Wisconsin (Coleoptera: Tenebrionidae). Entomological Society of America branch meeting, Minneapolis, Minnesota.
- 1999-**Dunford, J.C.**, and D.K. Young. The darkling beetles of Wisconsin (Coleoptera: Tenebrionidae): species inventory, keys, natural histories and distributions. Entomological Society of America national meeting, Atlanta, Georgia.
- 2005 – Branham M.A., **J.C. Dunford**, and D.K. Young. The vanishing immature insects course. Entomological Society of America national meeting. Ft. Lauderdale, Florida.
- 2003 - Cuda, J.P., **J.C. Dunford**, G.E. MacDonald, K.A. Langeland, and C.G. Hanlon. Torpedograss, *Panicum repens* L. (Poaceae): prognosis for classical biological control in the southeastern United States. Weed Science Society of America, Jacksonville, Florida.

VIDEOS AND WEB-SITES DESIGNED OR PRODUCED

- 2016-Walter Reed Biosystematics Unit-VectorMap-*Aedes* mosquito surveillance and pathogen testing in the Caribbean.
- 2013-Directed and produced training video entitled: Guideline for Evaluating Insecticide Resistance in Vectors using the CDC Bottle Bioassay.
http://www.cdc.gov/parasites/education_training/lab/bottlebioassay.html
- 2011-**Dunford, J.C.** Butterflies of America. <http://butterfliesofamerica.com/intro.htm>
- 2007 - **Dunford, J. C.**, L. A. Somma and D. Serrano. 2007. FSCA Mecoptera Resources: Mecoptera (scorpionflies, hangingflies, earwigflies, and allies) at the Florida State Collection of Arthropods. In: M. C. Thomas (ed.), Museum of Entomology FSCA (Gainesville) [online]. Available on URL: <http://www.fsca-dpi.org/MecopteraPage.htm>. Florida State Collection of Arthropods, Division of Plant Industry, Florida Department of Agriculture and Consumer Services, Gainesville.
- 2005 – **Dunford, J. C.**, M. C. Thomas, and P. M. Choate, Jr. The Darkling Beetles of Florida and the Eastern United States (Coleoptera: Tenebrionidae): <http://entnemdept.ifas.ufl.edu/teneb/> (Linked to University of Florida Entomology and Nematology Department and Florida State Collection of Arthropods home pages)(Also located at George A. Smathers Libraries, University of Florida Digital Collections: <http://www.uflib.ufl.edu/UFDC/UFDC.aspx?c=fao1&b=UF00067059&v=00001>
- 2000 – **Dunford, J. C.**, and D. K. Young. Tenebrionidae of Wisconsin:
<http://entomology.wisc.edu/~young/tenebrio/witenebr.html>
Linked to University of Wisconsin-Madison Entomology Department home page

- 2006 - Contributor to teneb.net (<http://www.tenebrionidae.net/newdesign/mainpage.htm>). A web-site devoted to darkling beetles (Tenebrionidae) worldwide
- 2003 - Contributor to 'Florida Insect Diversity' for Florida Entomological Society: <http://www.flaentsoc.org/arthropoddiversity/index.htm> (authored all Lepidoptera information)

PROFESSIONAL MEMBERSHIPS (CURRENT)

American Mosquito Control Association (2008-current)
 Center for Systematic Entomology (2001-current)
 Entomological Society of America (1997-current)
 North American Butterfly Association (2001-current)
 Society for Vector Ecology (2018-current)
 The Coleopterists Society (1997-current)
 The Honor Society of Agriculture-Gamma Sigma Delta-Florida Chapter (2007-current)
 The Lepidopterists' Society (2001-current)
 The National Scholars Honor Society-Magna Cum Laude (2007-current)
 University of Florida Alumni Association (2017-current)

SERVICE TO ACADEMIC/SCIENTIFIC COMMUNITY

Graduate Student Committees

- 2015-2016: Research Advisor, Master of Public Health graduate student, Uniformed Services University of Health Sciences; Degree completed
- 2016-2017: Thesis Examiner, Master of Science in Medicine, Faculty of Health Sciences, University of the Witwatersrand, South Africa; Degree completed
- 2017-2020 Supervisor, Executive Leadership Program selectee, Graduate School USA
- 2017-2020: Special Committee member, University of Wisconsin-Madison, Ph.D. candidate; Degree completed
- 2018-2023: Committee member, Uniformed Services University of the Health Sciences, Ph.D. candidates (2)

Ad Hoc Reviewer

Nature-Scientific Reports
 Florida Entomological Society
 The Coleopterists Bulletin
 Center for Systematic Entomology (Insecta Mundi)
 The Lepidopterists' Society
 Journal of the Kansas Entomological Society
 Journal of Medical Entomology
 Milwaukee Public Museum Contributions in Biology and Geology
 Molecular Phylogenetics and Evolution
 Zootaxa
 Systematics and Biodiversity
 Journal of Asia-Pacific Entomology
 Systematic Entomology
 The Journal of Natural History

