

About the authors

Dr David E. Bowles holds a BS in Biology and Natural Resources from Ball State University, a MS in Aquatic Biology from Southwest Texas State University, and a PhD in Entomology from the University of Arkansas, Fayetteville. He also is a graduate of the United States Air Force (USAF) Squadron Officer School, the Air Command and Staff College, and Air War College. Dr Bowles retired as a USAF Reserve Colonel in 2015 following a career of active duty and reserve assignments. He worked in various medical entomology and intelligence assignments located at the USAF School of Aerospace Medicine, USAF Armstrong Laboratory, USAF Force Protection Battlelab, USAF Institute of Operational Health, USAF Research Laboratory, National Center for Medical Intelligence and Armed Forces Pest Management Board. He also formerly served as the USAF Command Pest Management Professional for Air University Command and the USAF Surgeon General's representative to the Armed Forces Pest Management Board. He is a veteran of operations Desert Storm, Iraqi Freedom and Enduring Freedom. He currently serves as Adjunct Professor of Biology at Missouri State University. Dr Bowles has published extensively on a variety of subjects including taxonomy and ecology of aquatic insects and Crustacea, aquatic botany, fisheries biology and medical entomology.

Dr James A. Swaby holds a BS in Biology from Concordia College, Moorehead,

Minnesota; and MS and PhD in Entomology from Oregon State University, Corvallis, Oregon. He eventually achieved four Entomological Society of America Board Certifications (BCE) in Medical/Veterinary Entomology, Urban and Industrial Entomology, Plant Related Entomology, and General Entomology. He joined the United States Air Force (AF) in 1982, and retired as a Colonel in 2012. But his professional entomology career spans over 40 year and includes research, teaching, publishing, and consulting on pest management, vector-borne and zoonotic diseases, and related biological factors impacting human health. Those issues took him to 27 countries, 41 US states and over 200 trouble spots. Of the 14 job titles he held, those pertinent to this guide include Officer in Charge (OIC) of the AF Vector Surveillance Program, Plague Surveillance Program OIC, Dengue Surveillance Program OIC and the Principal Investigator on the AF Environmental, Vector-borne, and Zoonotic Disease Surveillance Initiative to develop advanced surveillance methods for remote, austere locations. He rose through the AF ranks to the Medical Entomology career field manager as the Chief Consultant for Medical Entomology and as the Consultant for Medical Entomology to the Air Surgeon General. His academic appointments included: AF School of Aerospace Medicine Operational Entomology Course Developer and Course Supervisor; USAF Master Training Instructor; USAF Academy Associate

Professor of Biology; Defense Medical Readiness Training Institute Affiliate Instructor; and Graduate Faculty, University of Texas Health Sciences Center, San Antonio, Texas. He also served as National Institutes of Health's National Advisory Research Resource Council Ex Officio Voting Member and on the University of Texas Institute for Integration of Medicine and Science's Clinical & Translational Science Award Working Group. He is an AF Squadron Officer School, Air Command and Staff College, and Air War College graduate, Gulf War veteran, and received numerous military, academic and research awards. He continues to volunteer: consulting, writing and lecturing on medical entomology and public health.

Dr Harold J. Harlan earned his BS, MS, and PhD degrees from Ohio State University, and specialises in medical entomology and acarology. He served 25 years on active duty as a USA Army Medical Entomologist, retiring in 1994. He was Assistant Professor, Uniformed Services University of the Health Sciences, 1990–1994, and Adjunct Professor, providing invited lectures and laboratory sessions in their Tropical Medicine Courses annually 1995–2017. He has been a Board Certified Entomologist (BCE) in Medical and Veterinary Entomology since 1973, and in Urban and

Industrial Entomology since 1999. Dr Harlan has published more than 40 articles in scientifically peer-reviewed journals or book chapters, and he is a recognised world authority on bed bugs. He was the National Pest Management Association staff entomologist for 9 years, and a Senior Entomologist for the Armed Forces Pest Management Board (AFPMB) for 8 years. While at the AFPMB, he gathered and developed the bulk of text content in their Living Hazards Database (LHD). Two arthropod species new to science were named in his honour, and he was a member of MENSA's Maryland Chapter, 1995–2000. He has been an invited speaker to multiple medical entomology, public health, and pest management professional audiences in many states, as well as in Belize, Canada, Dubai, Honduras, Hong Kong, Puerto Rico and Panama, addressing such subjects as mosquito biology and management, bed bugs and hazardous biota (including hazardous arthropods, invertebrates and snakes). He retired from full-time employment in October 2013. He has remained professionally active since, giving free public presentations on various critters (upon request), doing limited consulting on pests and pest-generated allergens, and helping revise the B.C.E Core and the B.C.E. Medical/Veterinary qualifying exams.