Thursday, November 19, 2015 2:00-3:00 p.m.

Are Mosquito-borne Viral Epidemics Mysteries or Puzzles?

featuring
Dr. Jonathan Day
Professor of Medical Entomology
University of Florida
Florida Medical Entomology Laboratory, Vero Beach

Meeting Room Link
https://connect.fiu.edu/lsfnovember2015
Enter meeting room as a guest.
Please use your full name.

Since before recorded time, arthropod-borne disease pathogens such as malaria, plague, and yellow fever have infected humans, domestic animals, and wildlife. As early as the 18th century yellow fever caused massive human epidemics all along the Atlantic coast of the USA. Improvements in our recent understanding of mosquito-borne viral epidemics have given us reason to be optimistic about predicting and responding proactively to arthropod-borne disease epidemics. Our understanding of how climate and weather patterns impact vectors and amplification hosts has improved to the point where factors such as summer rainfall and temperature can be tracked and used to forecast arboviral amplification and transmission. Mosquito-borne viral epidemics have moved from the realm of mysteries to puzzles that can be studied and predicted in ways that improve human health and well-being.