



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

**Sign up today!**

**[Online](#) or by email to [aealonso@fiu.edu](mailto:aealonso@fiu.edu)**

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## **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](#)**

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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 18<sup>th</sup> 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.