

THE FUTURE OF MOSQUITO BORNE ILLNESS AND PEST MANAGEMENT CONSIDERATIONS

September 22, 2020 | 2:00-3:30 pm EDT

BACKGROUND

EPA's Center for Integrated Pest Management (IPM) hosts an [ongoing series of webinars](#) featuring experts from across the country relaying educational information and practical strategies for establishing and improving integrated pest management programs. Also featured are smart, sensible, and sustainable strategies for addressing specific pest issues.

From viruses to vectors to victims, no one knows what the future will bring, but we can assess the threat and risk of new pathogens nearing our borders. We will evaluate the conducive conditions that lead to outbreaks, identify potential disease threats and address the role of private industry and public partners in mitigating these risks through IPM-based mosquito control.

TARGET AUDIENCE

- Health Departments
- Vector/Mosquito management district personnel
- Pest management professionals
- School facility/buildings and grounds staff
- School nurses / administrations
- Municipal parks and grounds managers
- School facility and grounds managers and crews
- Community and state shade tree commissions/arborists
- Public

SPEAKERS

- **Stanton Cope, Ph.D.**, Medical Entomologist; US Navy, Past President of the American Mosquito Control Association, Vice President of Technical Services, AP&G Co., Inc. / Catchmaster (scope@catchmaster.com; 551-689-8073)
- **Ann Powers, Ph.D.**, Molecular Arbovirology; Lead of the Virology Team and a Research Microbiologist in the Arboviral Diseases Branch, CDC; former Chairman of the American Committee on Arthropod-borne Viruses, former Councilor for the American Society for Tropical Medicine and Hygiene. (apowers@cdc.gov)

ANNOUNCEMENT

OUTLINE

WELCOME AND SPEAKER INTRODUCTIONS – MODERATOR (5 MINUTES)

- Welcome
- Tips for participants
- Speaker introduction

THREATS/RISKS, CONDUCIVE CONDITIONS, ROLE OF PRIVATE INDUSTRY - DR. COPE (45 MINUTES)

- The difference between threat and risk for vector-borne diseases
- Work to reduce risks
- How Zika died out – herd immunity
- **Elements of the conducive condition for an outbreak**
 - Pathogen vectors are present in numbers
 - Reservoir = people (West Nile virus, eastern equine encephalitis)
 - Introduced cases
 - Environmental conditions
 - Socio-economic conditions
 - Public health conditions
 - Political factors (blame)
- **Potential Disease Threats**
 - Mayuaro virus - similar to Dengue
 - Zoonotic pathogen; sylvatic cycle; animals (monkeys) to people
 - Genetic mutations – vectors and pathogens
 - Climate change
 - Venezuelan equine encephalitis in Texas
 - Japanese encephalitis
 - Rift Valley fever
- **Role of Private Industry in Mosquito Control**
 - Area-wide mosquito control
 - Yards/Businesses
 - Targeted applications
 - Protect pollinators
 - Inspections
 - Traps
 - Integrated mosquito management
 - Resistance management
 - Partner with local mosquito control district

MONITORING AND REPORTING – DR. POWERS (15 MINUTES)

- CDC monitoring of pathogen threats beyond our borders
- Threats to be aware of and look for
- What we can do to reduce the threat
- Reporting

ANNOUNCEMENTS & Q&AC- MODERATOR (20 MINUTES)

- Announcements
 - Participation certificate process and webinar evaluation
- Question and Answer Session
- Wrap-up