

# International Symposium on the Asian Tiger Mosquito

Ecology, Evolution, Epidemiology, and Control



February 12-13, 2009. Rutgers University, New Brunswick, NJ

## Thursday, February 12

8:00 AM Registration & Morning Coffee

9:00 AM-5:30 PM **Poster Session**

9:00 AM **Opening Remarks - Randy Gaugler**, Center for Vector Biology, Rutgers University

## SESSION I: BIOLOGY AND ECOLOGY

9:15 AM **Phil Lounibos**, University of Florida  
Invasion ecology of *Aedes albopictus* in the Americas

9:50 AM **Motoyoshi Mogi**, Saga University  
Cold-resistance of non-diapause eggs of *Stegomyia* species in Asia

10:25-10:55 AM Break

10:55 AM **Steven Juliano**, Illinois State University  
Predation and the integration of *Aedes albopictus* into invaded communities

11:30 AM **Didier Fontenille**, Institute the Recherche pour le Développement (IRD)  
Biology of *Aedes albopictus*, chikungunya vector, in la Reunion Island, Indian Ocean

12:05-1:25 PM Lunch break

## SESSION II: PARASITE-VECTOR INTERACTIONS

1:25 PM **Pattamaporn Kittayapong**, Mahidol University  
The Asian tiger mosquito and its endosymbiont Wolbachia: Effect on vector competence and transovarial transmission

2:00 PM **Michelle Tseng**, University of British Columbia  
Environmental variation and virulence: A case study with *Ascogregarina taiwanensis* and *Aedes albopictus*

2:35 PM **Michael Reiskind**, Oklahoma State University  
Making connections: Life history, survival and infection in *Aedes albopictus*

3:10 -3:40 PM Break

- 3:40 PM **Anna-Bella Failloux**, Pasteur Institute  
Could the recent outbreaks of chikungunya be only attributed to the high efficiency of *Aedes albopictus* as a vector?
- 4:15 PM **Stephen Higgs**, University of Texas  
Vector-virus-vertebrate interactions
- 4:50 PM **Discussion**
- 6:30 PM **Symposium Dinner**

## Friday, February 13

8:00-9:00 AM Morning Coffee

9:00 AM-6:00 PM **Poster Session**

### SESSION III: SURVEILLANCE AND CONTROL

- 9:00 AM **Dan Strickman**, USDA Agricultural Research Service  
Concepts of eradication and control of *Aedes albopictus*
- 9:35 AM **Stephen Dobson**, University of Kentucky  
*Aedes* population suppression via repeated inundative releases of incompatible males
- 10:10-10:40 AM Break
- 10:40 AM **Mark Nelder**, Center for Vector Biology, Rutgers University  
Hit 'em twice: Tandem use of insecticides against immature *Aedes albopictus*
- 11:15 AM **Brian Federici**, University of California  
Highly potent genetically engineered bacterial larvicides for use in integrated vector management programs
- 11:50-1:00 PM Lunch break

### SESSION IV: MOLECULAR BIOLOGY

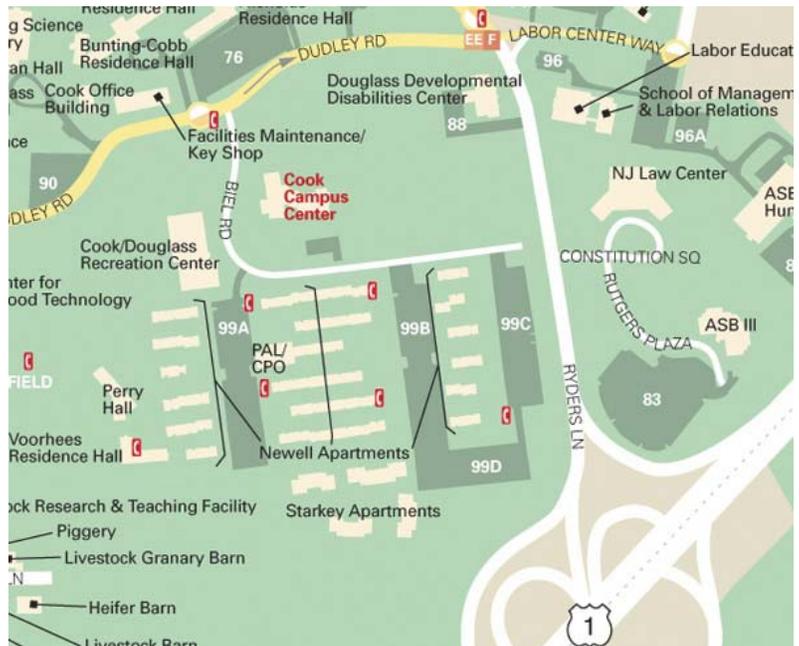
- 1:00 PM **Peter Ambruster**, Georgetown University  
Molecular, physiological, and life-history components of the diapause response in *Aedes albopictus*
- 1:35 PM **William Black**, Colorado State University  
A current cDNA map of *Aedes albopictus*
- 2:10-2:30 PM Break
- 2:30 PM **Luke Alphey**, Oxford University (Oxitec)  
Genetic control of the Asian tiger mosquito
- 3:05 PM **Dina Fonseca**, Center for Vector Biology, Rutgers University  
Cocktail hour: Mixing a "bloody mosquito"
- 3:40 PM **Discussion**

## LOCATION

Cook Campus Center,  
Rutgers University  
59 Biel Road  
New Brunswick, NJ 08901-8508

Parking available in Lot 99,  
sections C and D

<http://maps.rutgers.edu/maps/default.aspx?92>

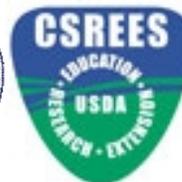


## ORGANIZING COMMITTEE

Kristen Bartlett-Healy  
Randy Gaugler  
Emilie Cameron  
Paul Clayson  
Dina M. Fonseca  
Banugopan Kesavaraju  
Mark P. Nelder  
Marc Slaff

## SPONSORS

Adapco  
Armed Forces Pest Management  
Board  
Clarke Mosquito Control  
New Jersey Agricultural  
Experiment Station  
New Jersey Mosquito Control  
Association  
Northeastern Mosquito Control  
Association  
US Department of Agriculture:  
Cooperative State Research,  
Education, and Extension  
Service  
TIFA Worldwide



For more information please visit

<http://vectorbio.rutgers.edu>