AMCA 91st Annual Meeting

Printed Program as of 3/1*

MONDAY, MARCH 3rd, 2025

5:00 PM - 8:00 Grand Opening of Exhibit Hall & Welcome

PM Reception

Hall A

6:30 AM - 8:00 AM RISE Breakfast

Ballroom B

TUESDAY, MARCH 2nd, 2025

8:00 AM - 12:00 PM*

*unless otherwise noted

Plenary

8:00 AM - 12:00 PM

Meeting Room: Ballroom A

8:10 Program Announcements

Isik Unlu

Best Management Practices for Adoption of New

8:15 Technology for Surveillance and Control of Mosquitoes

AMCA's Presidential Address

Rui-De Xue

8:15 Presidential Address

Rui-De Xue

8:35 Awards Presentation

Rui-De Xue

9:05 John Beidler: The Three Dimensions of a Complete Life

Gordon Pattersons

10:30 AMCA Technical Advisor Update

Daniel Markowski

10:55 Wing Beats – Your Trade Journal

Dennis Moore

Just a little pinprick - the History, Natural History, and The

11:05 Natural History Museums, London collections of

Mosquitoes

Erica McAlister

10:00 AM - 10:30 AM Break in Exhibit Hall A

Sponsored By Azelis

12:00 PM - 1:45 PM Lunch and Exhibits Open

Hall A

Sponsored By S.C. Johnson

1:45 PM - 3:15 PM*
*unless otherwise noted

Effective Outreach and Educational Strategies for Mosquito Control Symposium

Moderator: Andrea McKinney

1:45 PM - 3:15 PM *Meeting Room: 202*

1:45 21 Mosquito Lingo: Buzzing into the Basics

Karen Mojica

Don't Look Up, Look Down! A Free Mosquito Surveillance
2:00 23 Mobile App and Fun Educational Resources to Support
your Local Community Outreach

Russanne Low, Cassie Soeffing

2:15 24 Una Carta de Amor: Loving and Using Educational Ideas from Other Districts

Rachel Curtis-Robles, Andrea McKinney, Judith Pierce

2:30 25 IPM Education at a State Correctional Facility

Michele Rehbein, Ary Faraji

Educational Impact of the Aedes aegypti Male Mosquito

2:45 26 Release Project with Wolbachia in Puerto Rico: A

Community Approach

Veronica Rodriguez

3:00 27 Something fishy is happening in Ms. Skeeto's Science Lab

Cindy Mulla

Environmental drivers of West Nile virus Symposium

Moderator: Nicholas DeFelice, Alexander Keyel

1:45 PM - 3:15 PM Meeting Room: 208 A

1:45	28	Symposium Introduction: The importance of environmental conditions for understanding West Nile virus dynamics Alexander Keyel
1:51	29	Forecasting West Nile virus incidence with environmental drivers Michael Johansson, Ryan Harp, Karen Holcomb
2:03	30	Exploring the interplay between warming temperatures and future implications for West Nile virus transmission Johnny Uelmen, Marta Shockett, Catherine Lippi, Rebecca Smith, Sadie Ryan
2:15	31	The Impact of Temperature on West Nile Virus Vector- Virus Interactions Rachel Fay
2:27	32	West Nile genomics in the Southwest Crystal M. Hepp
2:39	33	A Spatially Resolved and Environmentally Informed Forecast Model of West Nile Virus in Coachella Valley, California Matthew Ward, Meytar Sorek-Hamer, Jennifer A. Henke, Aman Patel, Nicholas DeFelice
2:51	34	Spatially refined estimates of the risk of West Nile virus Nicholas DeFelice
Innovative Vector Management Strategies in Puerto Rico Surveillance & Control Symposium I Moderator: Luis Quintanilla 1:45 PM - 3:15 PM Meeting Room: 209		
1:45	42	PRVCU: An Integrated Vector Management Program for the Prevention and Control of the <i>Aedes aegypti</i> in Puerto Rico Julieanne Miranda-Bermúdez
2:00	43	Aedes aegypti Resistance to Adulticides: Data-Driven Approaches and Collaborative Study Efforts in Puerto Rico Reynaldo Morales, Mark A. Concepcion, Joanelis Medina-Quintana, Julieanne Miranda-Bermúdez, Grayson Brown
2:15	44	Bayamon Integrated Vector Management Demonstration Program

		Rafael Saavedra, Julieanne Miranda-Bermúdez, Jania García-Zeno, Cristhian Sanchez, Carlos Santiago, Luis Marrero	
2:30	45	Community Outreach Efforts for the Prevention of dengue in Puerto Rico Jania García-Zeno, Miladys Pérez-Vélez	
2:45	46	Protecting Indoor Spaces: Screens and Spatial Repellents in Southern Puerto Rico Nexilianne Borrero-Segarra, Julieanne Miranda-Bermúdez	
3:00	47	Uncovering DENV dynamics through mosquito surveillance and testing. Luisa Otero-Lopez, José Ruiz-Valcarcel, Amaury Morales, Mark A. Concepcion, Joanelis Medina-Quintana, Roberto Barrera	
Larvicide Resistance: Investigating and Adapting to an Emerging Threat Symposium Moderator: Kristina Lopez, Tianyun Steven Su 1:45 PM - 3:15 PM Meeting Room: 208 B			
1:45	35	The NEVBD Pesticide Resistance Monitoring Program: six years of larvicide resistance surveillance in the Northeastern US Elisabeth Martin	
1:57	36	Spatial and Temporal Trends in Larvicide Use in Florida: Implications for Mosquito Resistance Management Raquel Lima de Souza, Eva Buckner	
2:09	37	Making the dream work: Statewide container <i>Aedes</i> larvicide resistance testing through collaboration with Florida mosquito control programs Eva Buckner, Raquel Lima de Souza, Tianyun Steven Su, Nathan Burkett-Cadena, Eric P. Caragata, Ana Romero-Weaver	
2:21	38	Why easy, if it can be complicated? Testing knowledge on methoprene resistance evaluation methods. Christopher Bibbs	
2:45	40	From S-methoprene to S-methobutene: Implication for activity and stability enhancement and resistance management in mosquitos Tianyun Steven Su	
2:57	41	Lack of cross resistance between S-methoprene and <i>L. sphaericus</i> in <i>Culex pipien</i> s from the Chicago, IL region	

Kristina Lopez, Patrick Irwin, Mark Tomek, Robert Holub, Susan Paskewitz, Lyric Bartholomay, Mark Clifton

2:33 Product Stewardship: Developing Best Practices for Monitoring Resistance for Spinosad

Derek Drews, Andrew Rivera

Mosquito Lightning Symposium

Moderator: Ary Faraji 1:45 PM - 3:15 PM

Meeting Room: Ballroom A

1:45 7 Whitewater Mosquito Patrol: Rafting the River, Battling the Bite

Brian Byrd

Can Africa's Ability to Leap forward in Emerging

1:45 9 Technologies be extended to Managing Mosquito-Borne Diseases?

J. Wakoli Wekesa

1:45 1 Salt Lake City Mosquito Abatement District's EQUINE MOSQUITO CONTROL UNIT

Ary Faraji

1:45 2 Let's talk about sex, baby

Catalina Alfonso-Parra

1:45 4 The Gulf South Vector Educational Center for Training,

Outreach and Resources
Claudia Riegel, Janet Hurley

1:45 5 Opportunities: Biomaterials in Biting Arthropod Research

Bradley Willenberg

1:45 6 Dust off your trigonometry and bring a compass

Sarah Wheeler

1:45 8 Unearthing Spotted Fever Group Rickettsiosis (SFGR) Foci

in Central America

Kyndall Dye-Braumuller, Melissa S. Nolan

1:45 10 The Fine Art of Mosquito Hospitality: A Guide to Keeping Your Unwelcome Guests Alive

Aine Lehane, Lindsay Baxter, Elisabeth Martin, Laura Harrington

1:45 Not the Bees: Three years of nontarget research in three

Jacob D. Hart, Katie Hare, Christopher Lesser

1:45	12	microcrys Rebekah K	nosquito movement using edible DNA barcoded tals Kading, Natalie Wickenkamp, Kaleb Davis, Julius c Jones, Christopher Snow
1:45	13		es Bugs the Jitters, Enhances Spray Exposure vera, Derek Drews
1:45	14	Angela Car	fen and Plastic - The NeverEnding Story? ranci, Greg Williams, Jennifer Wong, Jessica Mark Breidenbaugh
1:45	15	Hunting tig Lukas Mura	gers in the city. No horses yet. ajda
1:45	16	Melissa Sn	ew far Alex Echenberg, Arturo Gutierrez, Jacob Tarango, elling, Jennifer A. Henke, Gonzalo Valadez, nylik, Gregorio Alvarado
1:45	17	intelligenc	
1:45	18		catch up: The case for proactive surveillance ed vectors cGregor
1:45	20	transovari Wyoming	stigations of Colorado Tick Fever Virus al transmission in <i>Dermacentor andersoni</i> in mith, Kelsey Mitchell
3:15 PN	/ - 4:00) PM	Break in Exhibit Hall Hall A
3:15 PN	Л - 4:00) PM	Ice Cream Social Hall A Sponsored By Valent Bio Sciences

4:00 PM - 5:30 PM*
*unless otherwise noted

Data Connections: NASA Earth Science Applications and Innovative Technologies to Monitor Vector Habitats Symposium

4:00 PM - 5:30 PM Meeting Room: 208 A			
4:00	70	Innovative Applications of NASA Earth Observations for Public Health Decision Support John A. Haynes	
4:46	72	NASA Data Supports Longterm Study of Rift Valley fever Assaf Anyamba	
5:04	73	Engage communities in mosquito surveillance and mitigation using NASA's GLOBE Observer Mosquito Habitat Mapper citizen science tool for vector control and research Russanne Low, Di Yang, Xiao Huang	
Innovative Vector Management Strategies in Puerto Rico Surveillance & Control Symposium II Moderator: Noemi Martinez-Tull 4:00 PM - 5:30 PM Meeting Room: 209			
4:00	74	The Role of Super pooling and Molecular Surveillance for Integrated Vector Management Programs. Joanelis Medina-Quintana, Marla García, Grayson Brown, Julieanne Miranda-Bermúdez	
4:15	75	Puerto Rico Vector Management Association Noemi Martinez-Tull, Amarilys Asencio-Torres	
4:30	76	Puerto Rico Vector Surveillance and Quality Control Programs Cristhian Sanchez	
4:45	77	Innovative Communications Strategies for Effective Mosquito Control in Puerto Rico Julieanne Miranda-Bermúdez	
New Ideas, Tools and Equipment Development Moderator: Michael Riles 4:00 PM - 5:30 PM Meeting Room: 202			
4:00	58	Efficacy and User Acceptability of Novel Mosquito Repellent Formulations in Thailand Alongkot Ponlawat	
4:10	59	Essential oil repellents as protection technologies against mosquitoes in a North Florida forest	

Moderator: Helena J. Chapman

		Robert Aldridge, Seth Gibson, Edmund Norris, Haley Dabbs, Jedediah Kline, Barbara Bayer, Frances V. Golden
4:20	60	Autocidal-icious adventures in mass rearing: Facilitating sterile- and incompatible-insect technologies within mosquito abatement districts Stephen Dobson
4:30	61	Establishing outdoor greenhouse insectaries for combating limited rearing space Taylor Taylor
4:40	62	Larval habitats and phenological profiles of <i>Culicoides</i> biting midges in Kansas, USA Bethany McGregor, Travis Davis
4:50	63	Optimizing vector surveillance coverage using multivariate environmental similarity surface maps Benjamin Nyman, Karthikeyan Chandrasegaran
5:00	64	SEPARATOR and NextGenSIT are ready for safe and efficacious mosquito control. Nikolay Kandul
5:10	65	The Silence of the Buzz: An Innovative Attract and Kill Method for Challenging Mosquitoes Greg White

4:00 PM - 5:33 PM*
*unless otherwise noted

Director/Manager's Daily Dilemma Symposium

Moderator: Rui-De Xue

4:00 PM - 5:33 PM *Meeting Room: 201*

4:00 48 Introduction about the Director/Manager Dilemma Symposium
Rui-De Xue
 4:03 49 Strategies for Operating a Vector and Urban Pest Control Program by the General Fund in New Orleans, Louisiana. Claudia Riegel, Carrie Cottone
 4:13 50 A Day in the Life of a District Director: The Three "Ps" Sherry Burroughs

4:23	51	A tale of the journey from the independent mosquito and vector control district to military entomologist and back again Mark Breidenbaugh
4:33	52	Responding to irrational and unhinged residents, Lee County, Florida David Hoel
4:43	53	What do you mean there is no water in the building?: Daily dilemma management Michelle Brown
4:53	54	Navigating Murky Waters: Challenges in Managing Politics and Elected Officials – Insights from the Executive Director Adriane Rogers
5:03	55	Mosquitoes EasyPeople, not so easy! James Clauson
5:13	56	The Importance of Employee Evaluations: Enhancing Performance, Development and Organizational Success Andrea Leal, Michael Behrend
5:23	57	Daily dilemma: staffing a revolving door Herff Jones

4:00 PM - 5:40 PM*

Aerial Mosquito Management Using Novel Triple-Action Adulticide Symposium

Moderator: Beth Ranson

4:00 PM - 5:40 PM *Meeting Room: 208 B*

4:00 Semi-field evaluation of ground and aerial ULV
applications using ReMoa Tri against pyrethroid-resistant
Aedes aegypti from Collier County, Florida
Decyo McDuffie, Sara Kacinskas, Rachel Bales, Leanne Lake,
Samantha Ramirez-Lachmann, Haley Johnson, Keira Lucas

Aerial Drift and Deposition Evaluations of ReMoa Tri &
Dibrom

Leanne Lake

^{*}unless otherwise noted

Efficacy of Triple Action Adulticide ReMoa Tri Against Resistant Aedes aegypti in a Field Cage Trial in San Juan, 4:50 68 Puerto Rico

> Reynaldo Morales, Luis Pérez, Luis Marrero, Joanelis Medina-Quintana, Julieanne Miranda-Bermúdez, Grayson Brown

5:15 ReMoa Tri: Aerial Evaluations in the Southern U.S. 69

Haley Johnson

5:45 PM - 7:15 PM Latin American discussion

209

WEDNESDAY, MARCH 5rd, 2025

7:15 AM -Welcome Networking Breakfast Hosted by

Community & Member Engagement Subcommittee 8:15 AM

> Ballroom A Sponsored By Central Life Sciences

8:00 AM - 2:00 PM **Trustee/Commissioner Tour**

> Sponsored By Valent BioSciences

8:00 AM - 3:00 PM **Education Day**

8:30 AM - 10:00 AM* *unless otherwise noted

Adult Control and Insect Resistance Challenges

Moderator: Neil Sanscrainte

8:30 AM - 10:00 AM Meeting Room: 208 B

Determining the Insecticide Resistance Status of *Culex* 8:30 96

pipiens s.l. collected in Clark County, Nevada

Trishan Wickramasinghe, Richard M. Oxborough, Vivek Raman, Christian DeHaan, David Quichocho, Camila Baez, Zoee Sanchez, Karen L. Figueroa Chilito, Austin Tang, Chad L.

Cross, Louisa Messenger

A statistically rigorous but organism and time efficient framework for determination of median lethal dose or 8:40 97

concentration in insects

Alden Estep, Neil Sanscrainte, Kendra Dagg, Fred Stell

8:50	98	Evaluating Insecticide Resistance: comparing topical and bottle bioassays Tara Thiemann, Sarah Wheeler, Edmund Norris	
9:00	99	Evaluating the mosquitocidal toxicity of sarolaner against the key disease vector <i>Aedes aegypti</i> . Kendra Dagg, Edwin A. Burgess, Alden Estep, Neil Sanscrainte	
9:10	100	Exploring Pyrethroid Resistance Mechanisms in Aedes aegypti and Culex quinquefasciatus in Arizona: A Focus on Target-Site and Metabolic Resistance Donald Ward, Ashlyn Maag, Jack Reihing, Lila Stanley, Jesus Levya, Damilola Oyelakin, Mikayla Utnehmer, Mackenna Berg, Alden Estep, Silvie Huijben	
9:20	101	Malaria vector control in sub-Saharan Africa: complex trade- offs to combat the growing threat of insecticide resistance Louisa Messenger, Richard M. Oxborough, Karen L. Figueroa Chilito, Filemon T. Tokponnon	
9:30	102	Phenotypic and genotypic insights into mosquito insecticide resistance in Thailand (2021-2024) Arissara Pongsiri	
9:40	103	Recreating ULV Sprays in the Lab to Evaluate Adulticide Formulations Greg White	
9:50	104	Selective Pressures and Resistance Evolution in Mosquito Populations: Challenges and Opportunities Silvie Huijben	
Latin American Student Competition I Moderator: Grifith S. Lizarraga 8:30 AM - 10:00 AM			
Meeting	y Room	Sponsored By Oxitec & Valent Bio Sciences	
8:40	88	Characterization of the culturable gut microbiota of Anopheles triannulatus collected in a Colombian malaria- endemic region Estefani Piedrahita, Laura Lopez, Margarita Correa	
8:50	89	Detritus and larval interspecific competition on female Aedes aegypti phenotypic traits, nutrient profile, and DENV-1 vector competence	

9:10	91	Characterization of <i>Aedes aegypti</i> populations from different regions of Brazil: life-history traits and insecticide resistance Barbara Souza, Jessica Gouvea, Jessica Bezerra, Luciana Araripe, Jose Bento Lima, Ademir Martins		
9:20	92	Entomofavela Maré – community-based Aedes surveillance in a conflicting zone in Rio de Janeiro, Brazil. GABRIEL NASCIMENTO, Marcia Lenzi, Jose Bento Pereira Lima, Ademir Martins		
9:30	93	Genetics of pyrethroid resistance in <i>Anopheles darlingi</i> , the main malaria vector Aline Loureiro, Quesia Amorim, Simone Ladeia-Andrade, Jose Bento Lima, Ademir J. Martins		
9:40	94	Metabolomic and miRNomic Signatures Across the <i>Aedes aegypti</i> Life Cycle Mariana Jimenez, Gerardo Trujillo, Iram Rodriguez-Sanchez		
9:50	95	Mirnomics and toxicology for the control of Aedes aegypti. Wendy Nohemi Guel Perez, Fernanda Hernandez, Cindy Gonzalez, Dannai Navarro, Iram Rodriguez-Sanchez, Mariana Jimenez, Gerardo Trujillo		
Modera	Student Competition I Moderator: Kristina Lopez 8:30 AM - 10:00 AM Macting Reams 204			
		Sponsored By Envu, Oxitec, & Valent BioSciences		
8:30	78	Adulticidal activity of Hemp Extracts against Aedes aegypti Erick Martinez, Peter M. Piermarini		
8:40	79	Characterizing the microbiome and prevalence of Wolbachia in Culex mosquitoes in the midwestern U.S. Rebecca (Becky) Cloud, Patrick Irwin, Carla Cáceres		
8:50	80	Endemicity of malaria and dengue trumps the study of Culex spp. mosquitoes and associated pathogens. Abdisalam Abdi, gabriel Hamer, Ryan Almeida		
9:00	81	Permethrin susceptibility in Culicoides biting midges from Florida Vilma Cooper, Eva Buckner, Nathan Burkett-Cadena		

9:10	82	Are efforts to conserve urban bees increasing risk of mosquito-borne disease? Hannah Dehus, Caralee Shepard, Sam Ward, Mary M. Gardiner, Megan E. Meuti
9:20	83	Assessing the Role of Deforestation in Shaping Mosquito Abundance Patterns Across Brazil Allison Hughes, Melissa S. Nolan, Kyndall Dye-Braumuller
9:30	84	Developing salivary gland ELISAs to measure human exposure to La Crosse virus vectors Hannah Alexandar, Brian Byrd, Ross Boyce, Berlin Berlin Londoño-Renteria
9:40	85	Evaluation of surveillance traps for host-seeking La Crosse virus vectors in Southern Appalachia Madeleine Craig, Charlie Sither, Roxanne Connelly, Brian Byrd
9:50	86	Like a moth to an interrupted flame - modifying the CDC light trap to increase species richness Mitchell Mullin, Yoosook Lee, Lindsay Campbell, Brian Byrd
Mosqui	to Co itor: D 1 - 10:0	
8:30	114	AMCA's National Communication Campaign for Mosquito Control: Yesterday's Threat, Today's Solutions Daniel Markowski
8:40		Yesterday's Threats, Today's Solution Clara Campbell, Bridget Harrison, Ansley Luce, Stephanie Kong
9:10	115	Maximizing Impact: How Marin-Sonoma MVCD is Implementing AMCA's National Campaign and Innovative Resources Peter Bonkrude
9:20	á	Utilizing the AMCA's National Education Campaign tools for advocacy messaging Angela Beehler
9:33	116	From Mosquito Bites to Communication Insights Michele Rehbein
9:45		Enhancing National Mosquito Management: The AMCA's IMM Training Resources and Programs

8:30 AM - 10:15 AM* *unless otherwise noted

Transforming Boundaries into Bridges: Lessons Learned from Asia and Americas for Dengue Control

Symposium

Moderator: Isik Unlu 8:30 AM - 10:15 AM Meeting Room: 208A

> **Sponsored By** Azelis, Central Life Sciences, Clarke, Envu, Target, Valent BioSciences

8:30	177	New twist in dengue fight: Aedes aegypti's nocturnal feeding habits challenge current control measures Kabirul Bashar, ishik Unlu, Md. Mujammel Haque, Tasnim Bashar Zarin
8:45	178	Innovative Approaches to Understanding Dengue Virus and Vector Dynamics: From Detection and Characterization to Comprehensive Surveillance Integration within Existing Systems Smriti Khadka
9:00	179	Project Wolbachia: Enhancing Singapore's Integrated Strategy for Dengue Prevention Denise Tan, Jue Tao Lim, Borame Sue Dickens, Li Yun Tan, Caleb Lee, Mohammad Faizal Zulkifli, Jonathan Liew, Yee Ling Lai, Chia Chen Chang, You Ming Ng, Lu Deng, Kathryn Vasquez, Chee Seng Chong, Shuzhen Sim, Judith Chui Ching Wong, Cheong Huat Tan, Lee Ching Ng
9:15	180	Emerging Dengue Threat in Indian Subcontinent and Mitigating Strategies Dr Ashwani Kumar
9:30	181	The Nexus of Innovative and Integrated Vector Control: Solutions for Effective Dengue Management Laetitia Leroy
9:45	182	The Unusual Challenges and Advantages of a Non-Profit Organization: The Puerto Rico Vector Control Unit in the Current Dengue Outbreak. Grayson Brown

10:00 183 Dengue Prevention and Control Program in Mexico

Fabian Correa-Morales

8:30 AM - 4:00 PM*
*unless otherwise noted

Field Day! - Puerto Rico Mosquito Vector Control Unit

8:30 AM - 4:00 PM

10:00 AM - 10:45 AM Break in Exhibit Hall

Hall A

Sponsored By Valent BioSciences

10:45 AM - 12:15 PM* *unless otherwise noted

11 Annual AMCA Arthropod Vector Highlights Symposium

Moderator: Lee Cohnstaedt

10:45 AM - 12:15 PM *Meeting Room: 208 A*

10:45 135 Highlights of Vector Biology

Cameron Osborne

11:15 136 Highlights of vector control

Jason Richardson

11:45 137 Advances and challenges in vector-borne forecasting

and modeling

Michael Johansson

Applying Military Vector Control Skillset to Civilian Mosquito Control Initiatives Symposium

Moderator: Whitney Qualls

10:45 AM - 12:15 PM Meeting Room: 209

10:45 Transitioning field research and collaborations from the

military to a civilian mosquito control district

David Hoel

11:00 148 U.S. Navy Entomology to Vector Disease Control

International: Similar Goals, Challenges and Outcomes

Peter Obenauer, Broox Boze

11:15	149	Anchored but still Swatting: A Navy Entomologist Transitions to a Michigan Mosquito Control District Carl Doud
11:30	150	How Serving as a Navy Entomologist Led to a Role in Mosquito Surveillance in Citrus County, Florida Frederick Stell
	or: Reb 1 - 12:1	
10:45	106	Socio-ecological drivers of Aedes aegypti and Aedes albopictus assemblages in cities of Louisiana, USA Rebeca de Jesús Crespo
11:05	ne bi aç ci	sing Mosquitoes in NASA Science as theme, we built a ew collaborative program with big science partners to ring master naturalist-level environmental education to all ges and incorporating reciprocity through participatory tizen science. nita Schiller, Russanne Low
11:15	108	Coordination and Communication: Establishing Partnerships with Local Beekeepers Ruben Rosas
11:25	109	Density-dependence and different dimensions of changing weather shape abundance patterns of common mosquito species (Diptera: Culicidae) in Bloomington, Indiana, USA Luis Chaves
11:35	110	Educating Animal Welfare Professionals on Vector- borne Diseases Erin Cloherty Duvernay, Ana Zorilla, Susanne Straif- Bourgeois, Emily Roberson, Jill VanWhy-Spoonmore, Claudia Riegel
11:45	111	Rapid Response: Preparing and Planning for Mosquito- Driven Public Health Emergencies Jennifer R. Gordon, Daniel Markowski
11:55	112	Teaching with maggots: How your skills can help local and state labs solve crimes Kristen Healy
12:05	113	The unexpected effects of sea level rise on 'freshwater' mosquitoes

Latin American Student Competition II/Latin American Symposium I

Moderator: Grifith S. Lizarraga

10:45 AM - 12:15 PM Meeting Room: 202

> **Sponsored By** Central Life Sciences, Clarke, Valent BioSciences

10:45	128	Non-conventional insecticides for controlling Aedes aegypti resistant to conventional insecticides Daniela Cerda Apresa, Selene M Gutierrez-Rodriguez, Jesus A. A. Davila-Barboza, Beatriz Lopez-Monroy, Iram Rodriguez-Sanchez, Ma.Guadalupe Rojas-Verde, Humberto Quiroz-Martinez, Adriana E. Flores
10:55	129	Phenotypic contrast of <i>Aedes aegypti</i> against broflanilide and permethrin. Dannai Navarro, Mariana Jimenez, Iram Rodriguez-Sanchez, Cindy Gonzalez, Fernanda Hernandez, Gerardo Trujillo
11:05	130	Primera Evaluación a Gran Escala de la Resistencia a Piretroides en <i>Anopheles darlingi</i> (Diptera: Culicidae) en Brasil (2021 a 2024): Un Paso Importante en el Control de la Malaria Quesia Amorim, Cynara Rodovalho, Ademir Martins, Priscila Serravale, Patrícia Guimarães, Aline Loureiro, Diogo Bellinato, Jose Bento Pereira Lima
11:15	131	Transcriptomic profile of Aedes aegypti (DIPTERA: CULICIDAE) after exposure to insecticides Cindy Gonzalez, Mariana Jimenez, Iram Rodriguez- Sanchez, Fernanda Hernandez, Dannai Navarro, Gerardo Trujillo
11:25	132	"EVALUACIÓN DEL EFECTO DEL LARVICIDA BIOLÓGICO Y EL ADULTICIDA PIRIMIFOS METIL APLICADO CON ULTRA BAJO VOLUMEN CON EQUIPAMIENTOS PORTÁTILES SOBRE Aedes aegypti (DIPTERA: CULICIADAE) jose Luis Laura Rivadeneira, jose Luis Laura Rivadeneira
11:45	134	ARBOVIRUS SURVEILLANCE IN POLK COUNTY MOSQUITO CONTROL Hugo Ortiz-Saavedra, Jackson Mosley

Student Competition II Moderator: Kristina Lopez

10:45 AM - 12:15 PM Meeting Room: 201

Sponsored By

11:45	1	Evaluating Larvicide Resistance and Cross Resistance in the Culex pipiens Assemblage Ali Ross, Lyric Bartholomay, Susan Paskewitz, Mark Clifton
11:55	(Establishment of Wolbachia infection in the biting midge Culicoides sonorensis via Larval and Adult Feeding Amanda Ramirez, Corey L. Brelsfoard
10:45	121	Measuring blood meal degradation in the primary La Crosse virus vector Aedes triseriatus Jaslyn Stamey
10:55	122	Re-emerging Mosquito Pathogen Surveillance in Charleston, SC Ahalya Muraleedharan, Andrew Pierson, Arianna Cook, Madeleine Meyer, Kia Zellars, Melissa S. Nolan, Kyndall Dye-Braumuller
11:05	123	Resisting resistance: Identifying biochemical biomarkers for pyrethroid resistance in <i>Aedes aegypti</i> mosquitoes Carla-Cristina Edwards
11:15	124	Synchronicity of miRnomics and Metabolomics During the <i>Aedes aegypti</i> Life Cycle Mariana Jimenez, Iram Rodriguez-Sanchez
11:25	125	Target and non-target effects of Bti larviciding on ephemeral pond communities Jaclyn Everly, Steven Juliano
11:35	126	Uncovering reproductive consequences of seasonal differences in mosquito ejaculate Chloe Chiu, Megan E. Meuti

12:15 PM - 1:45 PM Lunch Hall A

Sponsored By

Central Life Sciences & Oxitec

12:15 PM - 1:45 PM* *unless otherwise noted

Poster Session

12:15 PM - 1:45 PM Meeting Room: Hall A

12:15	P- 1	Expanded Monitoring of Insecticide Resistance and Follow-up Bioassays in <i>Aedes aegypti</i> Collected in Southern Puerto Rico in 2019 and 2023. Gilberto Felix, Ryan Hemme, Kristen Adkins, Roberto Barrera, Victoria Ocasio-Smith, Marta Diaz
12:15	P- 2	An evaluation of available formulated residual insecticides with cone bioassays in Aedes aegypti from Ponce, Puerto Rico Gilberto Felix, Marta Diaz, Luis Rivera, Roberto Barrera, Ryan Hemme, Kristen Adkins, Amechelle Leander
12:15	P- 3	Adaptation and Optimization of a Triplex Reverse Transcription Polymerase Chain Reaction Protocol for Arbovirus Surveillance in Canyon County Idaho Heather Ward
12:15	P- 4	Insecticide Resistance in <i>Anopheles (Nyssorhynchus)</i> darlingi Populations from Barcelos, Brazilian Amazon: Implications for Malaria Vector Control Simone Ladeia-Andrade, Quésia S. Amorim, Jose Bento Lima, Ademir J. Martins, Aline Loureiro, Maria José Oliveira, Íria Rufasto, Nelson F. Fé, Maria Anice M. Sallum, Paulo Ribolla, Amaro Brito
12:15	P- 5	Characterization of the intrinsic insecticidal activities of geraniol against the yellow fever mosquito, Aedes aegypti Paola Feliciano, Peter M. Piermarini
12:15	P- 6	TESTING A COMBINED IIT/SIT APPROACH TO CONTRO MOSQUITO-BORNE DISEASES AT SCALE IN SOUTH MEXICO Azael Che Mendoza, Abdiel Martín-Park, Yamili Contreras-Perera, Norma Pavía-Ruz, Josué Villegas-Chim, Henry Puerta-Guardo, Wilbert Bibiano-Marín, Gabriela González-Olvera, Guadalupe Ayora-Talavera, Anuar Medina-Barreiro, Jorge Palacio-Vargas, Fabian Correa-Morales, Gonzalo Vazquez-Prokopec, Zhyiong Xi, Pablo Manrique-Saide, Gabriela González-Olvera
12:15	P- 7	SUSCEPTIBILITY TO TEMEPHOS AND MALATHION INSECTICIDES OF <i>AEDES AEGYPTI</i> (DIPTERA: CULICIDAE) POPULATIONS IN THE STATE OF SÃO PAULO BRAZII

		Medeiros-Sousa, Vera Camargo-Neves, Mauro Marrelli
12:15	P- 8	The attractant effects of three cyanobacterial taxa on <i>Aedes aegypti</i> oviposition. Jerry Champion, Luisa Otero-Lopez, Carolle Garcia-Medina, Roberto Barrera
12:15	P- 9	Cage and experimental house trials to optimize the use of dried attractive bait stations (DABS) for Aedes aegypti control. Luis Quintanilla, Leonardo Ortega, Marco Neira, David Larsen
12:15	P- 10	Operational effectiveness of ground and aerial applications of ReMoa Tri Richard Ryan, Keira Lucas
12:15	P- 11	Using UAS to Quantify Containers in Urban Baton Rouge, LA Waterways Madeline Fryer, Mark Benfield, Claudia Riegel, Rebeca de Jesús Crespo
12:15	P- 12	Predicting Aedes vexans Populations Using Artificial Intelligence and Hyperlocal Weather Observations in Saginaw Michigan Jesse Vollmar, Michael Asher
12:15	P- 13	Developing a cohort of active tree holes for La Crosse virus interventions Madeleine Craig, Roxanne Connelly, Nicholas Lundy, Brian Byrd
12:15	P-14	The Vieques Septic Systems Project Jorge Nina Espinosa, Lirio Márquez D'Ácunti
12:15	P- 15	Assessing Minimum Risk 25(b) Products for Control of Blacklegged Ticks in the Upper Midwest, USA Brad Tucker, David Jansen, Tela Zembsch, Susan Paskewitz, Lyric Bartholomay
12:15	P- 16	Baseline Surveys of Household Containers: Identifying Aedes aegypti Larval Habitats in Iquitos, Peru Jacob Ford, Amy Morrison, Valerie Paz-Soldan
12:15	P-17	VectorByte Data Platform and Training Samuel Rund
12:15	P- 18	Evaluation of Regional Surveillance of West Nile Virus and St. Louis Encephalitis Virus in the Panhandle of Texas

Ellen Leiva, Neide Munerato, Karina Nalon, Juliana De Deus,

Vanessa Otrera, Marcos Silva, Adriano Pinter, Antonio

		Sierra N. Lewis, Dr. Joseph R. (JR) McMillan, Dr. Cherissa AbdulHamid, Melissa Clawson, Hunter Covey, Corey L. Brelsfoard, Christi Olszewski
12:15	P- 19	Impact of Microplastic Pollutants on Mosquito Development and Survival Christina Roth, Sofia Cuenca Rojas, Sarah Kelly, Kyle Swade, Marina Koether, Nicholas Green, Andrew Haddow
12:15	P- 20	Investigating the impact of perfluorooctanoic acid (PFOA) on the mosquito Aedes albopictus (Diptera: Culicidae) Sarah Kelly, Kyle Swade, Nicholas Green, Marina Koether, Andrew Haddow
12:15	P- 21	New insights from mosquito surveillance collaboration between University of Notre Dame and St. Joseph County Environmental Health Department, Indiana, 2021-2024 Michelle Huang, Samuel Rund, Jennifer Robichaud, Brett Davis, Mary Ann McDowell
12:15	P- 22	Baseline Aedes surveillance on Kwajalein Atoll, The Republic of Marshall Islands Erlynda Chutaro, Calvin Juda, Francyne Wase-Jacklick, Tamara Buhagiar, Saul Lozano, Anna Drexler, Limb K. Hapairai
12:15	P- 23	A novel snapshot approach to surveillance of urban mosquitoes across the Caribbean David Bruce Conn, Denise Andriot Conn
12:15	P- 24	What is the prevalence of <i>Aedes aegypti</i> in schools in Puerto Rico? Veronica Acevedo-Soto, José Ruiz-Valcarcel, Reinaldo Rivera, Rafael Saavedra, Samuel Lacen, Joanelis Medina-Quintana, Grayson Brown, Gabriela Paz-Bailey, Roberto Barrera
12:15	P- 25	Tropical Islands Training and Evaluation Center (TITEC): Findings from the 2024 Vector Control Needs Assessment in Puerto Rico and the Pacific Amarilys Asencio-Torres
12:15	P- 26	Innovative 3D Printed Traps: A Cost-Effective Solution for Mosquito Surveillance Kelly Furey
12:15	P- 27	Electrifying Drones: Ford F-150 Lightning Powers a Greener Mosquito Control Future Mark Wieland, Eric Haas-Stapleton

12:15	P- 28	Assessing aerobic treatment units for mosquito habitat compatibility and pollutants Heather Penton, Nicholas DeLisi, Kevin A. Caillouet
12:15	P- 29	Treatment Prioritization of Larval Habitats for Aedes albopictus and Culex quinquefasciatus in New Orleans, Louisiana, USA. Alexandros Pavlakis, Jennifer Breaux, Katie Westby, Claudia Riegel
12:15	P- 30	Towards residential control of the eastern tree hole mosquito (Aedes triseriatus) – results of a larval bioassay field trial of Altosid SR20 in a La Crosse endemic area Jaslyn Stamey, Michael Riles, Mary Nordgulen, Daniel Killingsworth, Roxanne Connelly, Brian Byrd
12:15	P- 31	Mass Rearing Techniques of <i>Toxorhynchites rutilus</i> for Use in Operations in New Orleans, Louisiana. Andra McClue, Cynthia Harrison, Alexandros Pavlakis, Janet C. McAllister, Claudia Riegel
12:15	P- 33	Immature forms of mosquitoes (Diptera: Culicidae) in Phytotelmata in an environmental protection area in São Paulo, Brazil Walter Ceretti-Junior, Antonio Medeiros-Sousa, Marcia Bicudo de Paula, Karolina Barrio-Nuevo, Ramon Wilk-da-Silva, Rafael Oliveira-Christe, Eduardo Evangelista, Mauro Marrelli
12:15	P- 34	Guam Vector Management
	34	Niel Tirador, Leilani L. Navarro, Rosanna Y. Rabago, Limb K. Hapairai, M. Nadeau
12:15	P- 35	Predicting the seasonal abundance of the cattail mosquito (Coquillettidia perturbans) in Minnesota, USA Scott Larson
12:15	P- 36	Oviposition deterrent and ovicidal effects of Salvia munzii essential oil on insecticide-resistant Aedes aegypti (L.) Selene M Gutierrez-Rodriguez, Jesus A. A. Davila-Barboza, Beatriz Lopez-Monroy, Iram Rodriguez-Sanchez, Ivan Cordova-Guerrero, Sergio A Galindo-Rodriguez, Humberto Quiroz-Martinez, Adriana E. Flores
12:15	P- 37	What do you do in the winter? Immature mosquito surveillance outside the "mosquito season" in Northern Virginia and its impacts on program operations.

Exploring Fungi as a Carbon Dioxide Source for P-12:15 Enhancing Attractiveness of the BG-Sentinel 2® 38 **Mosquito Trap** Janet C. McAllister, Madeline Fryer, Alexandros Pavlakis, Claudia Riegel P-Collaborating with City Code Enforcement to Address 12:15 39 **Urban Mosquito Sources in the Coachella Valley** Antonio Molina, Gregorio Alvarado, Jeffrey Rushing, Jonathan DeSantis, Salvador Becerra P-12:15 **Insect Preservation For Hands-on Outreach Projects** 40 Kara Gaylor, Jamesina Scott, Michelle Meighan, Julian Chavez P-Distribution of Anopheles Mosquitoes in the USA to 12:15 42 Support Locally Acquired Malaria Outbreak Response Rithika Chari, Rebecca Levine, Saul Lozano P-**Public Health Leadership Development Needs** 12:15 43 Assessment Chris Stelzig, Erin Cadwalader Evaluating a modified CO2-baited CDC light trap to P-12:15 improve trapping effectiveness in a La Crosse virus 41 endemic area. Mitchell Mullin, Charlie Sither, Yoosook Lee, Lindsay Campbell, Brian Byrd 12:15 PM - 4:00 PM Exhibits Open

Hall A

Lauren Lochstampfor

Joshua Smith, Tilde Hoff, Rachel Kempf, Andrew Lima,

1:45 PM - 3:15 PM*
*unless otherwise noted

Latin American Symposium II Moderator: Grifith S. Lizarraga

1:45 PM - 3:15 PM *Meeting Room: 202*

1:45 152 Entomological Surveillance and Control of *Aedes aegypti* and *Aedes albopictus* in Rural Districts of São Domingos do Prata, MG

		Stella Carneiro, Ima Braga, Jose Bento Lima
1:55	153	Impact of an insecticidal paint on the reproductive physiology of <i>Aedes aegypti</i> in a dengue endemic area of Colombia Guillermo Rua-Uribe, Idalina Navarro-Barreto, Maria Isabel Arroyo-Arroyo, Breinnerd breinnerd.velasquez@udea.edu.co
2:05	154	Strategies for Aedes aegypti Control in Wide Areas: Spatial Application of Bacillus thuringiensis israelensis – Bti WDG Ima Braga
2:15	155	The Mexican experience "Good Mosquitoes" for Aedes aegypti control Abdiel Martín-Park, Yamili Contreras-Perera, Azael Che-Mendoza, Norma Pavía-Ruz, Josué Villegas-Chim, Emilio Trujillo-Peña, Henry Puerta-Guardo, Wilbert Bibiano-Marín, Anuar Medina-Barreiro, Jorge Palacio-Vargas, Fabian Correa-Morales, Hugo Defín-González, Héctor Gómez-Dantés, Pablo Manrique-Saide
2:25	156	Assessment of indoor spatial application using the Aero System® for Aedes aegypti control and the use of ovitraps to guide intervention actions Ima Braga, Dionisio Costa, Danielle Chaves, Stella Carneiro, Luciana Dias, Douglas Duarte, Jose Bento Lima
2:35	157	Avaliação do Natular ® 20EC para controle residual de Culex sp. e Anopheles sp. no estado de Rondônia, Brasil Christian Carlo Rezende
2:45	158	Efficacy and Persistence of Natular DT Mini Larvicide for the Control of Aedes aegypti Larvae in Brazil: A Study in Simulated Field Conditions with Local Populations and the Rockefeller Strain Jose Bento Pereira Lima, Quesia Amorim, Thiago Ribeiro, Diogo Bellinato, Kathyanne Barbosa, Rafael Alves, Osita Nascimento, Ana Paula Corrêa, Geandro Gama, Keison Cavalcante, Allan Kardec Galardo, Maria Alice Santos
2:55	159	EFICACIA Y RESIDUALIDAD DEL LARVICIDA BIOLÓGICO VECTOMAX PARA EL CONTROL DE LARVAS DE Anopheles darlingi TRANSMISOR DE LA MALARIA EN LA AMAZONIA BOLIVIANA jose Luis Laura Rivadeneira, jose Luis Laura Rivadeneira
3:05	160	First records of Aedes tormentor and Culex panocossa in Tamaulipas, Mexico Aldo Ortega, Mario Rodríguez, Lihua Wei, Guillermo Estrada, Nadia Fernández

Moderator: Mark Clifton 1:45 PM - 3:15 PM Meeting Room: 208 B **Structures of Mosquito and Vector Control Programs** 1:45 161 **Around the United States** Nina Dacko Where to house mosquito control? Advantages and Disadvantages of independent versus dependent 2:00 162 mosquito control programs Isik Unlu The Organizational Structure and Success of the Puerto 163 2:15 **Rico Vector Control Unit** Julieanne Miranda-Bermúdez **Chatham County Mosquito Control: A County Level** 2:30 164 **Department** Ture Carlson Harnessing the Power of Independence: The Role of 2:45 165 **Special Districts in Mosquito Control** Ryan Clausnitzer **Vector Control Moderator: Dennis Moore** 1:45 PM - 3:15 PM Meeting Room: 209 **Enhancing Efficiency and Sustainability in Black Fly** 1:45 138 **Control: Implementation of a Bulk Container Treatment** System Casey Herrmann Determining Insecticide Resistance in Culex tarsalis: 1:55 140 Phenotypic, Genotypic, and Enzymatic Profiles from Maricopa County, Arizona Mackenna Berg, Donald Ward, Alex Aldosari, Matthew Mcculloch, Bryce Monsevais, James Will, Silvie Huijben Establishing a novel age-grading method for *Culex* 2:05 141 tarsalis populations using pixel intensity of wing photos. Greg Pugh, Zane Wilson, Ryan Yoe, Peyton Ferris, Michelle

Legislative and Regulatory Symposium I

Timothy A. Burton, Bryce Asay, Brian D. Foy

Savran, Jackson DeCook, Blue Hephaestus, Claire Stewart,

2:15	142	Investigating Culex pipiens and Culex tarsalis activity patterns to determine optimal application times for adult mosquito control interventions Sarah Wheeler, Daniel Mendoza, Mario Novelo, Whitney Clack, Kara Kelley
2:25	143	Mapping dengue virus transmission risk based on real- time surveillance data with VectorSurv Christopher Barker, Aynaz Lotfata, Jody Simpson
2:35	144	Pilot field trials of freeze-dried beets as an oviposition lure for <i>Aedes aegypti</i> in New Orleans, Louisiana, USA Samuel B. Jameson, Brendan H. Carter, Nicole F. Luna, Dawn Wesson
2:45	146	When do you intervene? Making real-time control decisions with your surveillance data using VectorSurv and other popular software tools Olivia C. Winokur
2:55	Vir	plying Machine Learning Models to Predict West Nile rus Outbreaks in California and the U.S. nfei Liao
3:05	Мо	mate Adaptation and Genetic Differentiation in the squito Species Culex tarsalis nfei Liao

Young Professionals Symposium: Roles in Response: How vectorcontrol professionals manage public health emergencies Moderator: Vilma Cooper, Kassidy Caride, Kyndall Dye-Braumuller, Drew Lysaker, Andrew Rivera, Chloe Wang

1:45 PM - 3:15 PM *Meeting Room: 201*

1:45 PM - 3:25 PM*
*unless otherwise noted

Vector Surveillance and Resistance Monitoring

Moderator: Candace Royals

1:45 PM - 3:25 PM Meeting Room: 208 A

1:45 Fantastic Midges and Where to Find Them: an update of Culicoides species in Puerto Rico

Juan De Leon, Luis Quintanilla, Bethany McGregor

1:55	168	Enhanced Mosquito Surveillance Project Aimed at Stabilizing the Vector Index to Determine an Adulticide Application Threshold, Larimer County, Colorado – 2024 Matylda Lally, Tobias "Toby" Koch, Lauren Craft, Kendra Smits, Matt Bauer
2:05	169	Unwanted and Uninvited: <i>Culex (Phenacomyia) lactator,</i> a New Mosquito Species in Broward County, Florida Odette Reza-Brown
2:15	170	Decoding mosquito diversity in the Caribbean - insights from a 'Snapshot Survey' on Aruba, Bonaire and Curaçao Jordy van der Beek
2:25	171	Essential oil-based insecticides pose reduced threats to off-target species, such as honey bees (<i>Apis mellifera</i>). Ellis Johnson, Arunas Damijonaitis
2:45	173	Evaluation of a non-pyrethroid botanical molecule derived from Pogostemon cablin oil as a spatial repellent. Edmund Norris, Shawn Culley, Jedidiah Kline, greg allen, dan kline, adam bowman, Haley Dabbs
2:55	174	Resistance Bottle Bioassays: We may have a problem now what? Heather Ward
3:05	175	Spatial and Temporal Dynamics of Aedes Mosquitoes: Assessing Dengue Risk in Urban Environments Morgan Jibowu, Sarah M. Gunter
3:15	176	The effect of dual-active-ingredient, long-lasting insecticidal nets on insecticide resistance in malaria vectors in Benin: results of a 3-year, three-arm, cluster-randomised, controlled trial Arthur Sovi, Constantin J Adoha, Boulais Yovogan, Chad L Cross, Dominic P Dee, Alphonse Keller Konkon, Aboubakar Sidick, Manfred Accrombessi, Minassou Juvenal Ahouandjinou, Razaki Osse, Edouard Dangbenon, Linda Towakinou, Clement Agbangla, Germain Gil Padonou, Thomas s Churcher, Corine Ngufor, Jackie Cook, Natacha Protopopoff, Martin C Akogbeto, Louisa Messenger
0.45 DM 4.00 DM		

3:15 PM - 4:00 PM Break in Exhibit Hall

Hall A

3:15 PM - 4:00 PM Donut Social

Hall A

Sponsored By

Azelis

4:00 PM - 5:00 PM

Vendor Meeting & Reception

3rd floor Foyer

4:00 PM - 5:30 PM*
*unless otherwise noted

Adult Vector Control using ULV Applications

Moderator: Ary Faraji 4:00 PM - 5:30 PM Meeting Room: 209

	,	
4:00	205	Aerial Adulticiding Best Practices: Case Studies using Duet HD Kattie Morris, Victoria Hyrczyk
4:10	206	Characterizing the intrinsic and extrinsic factors driving resting behavior of <i>Aedes aegypti</i> to advance vector control David Jimenez-Vallejo, Azael Che-Mendoza, Anuar Medina-Barreiro, Gabriela González-Olvera, Juan Sebastian Duran Ahumada, Pablo Manrique-Saide, Guillermo Chan, Felipe del Castillo-Centeno, Gonzalo Vazquez-Prokopec
4:20	207	Evaluating the Environmental Friendliness of Essential Oil Based Insecticides Arunas Damijonaitis
4:30	208	Insecticide Switch Alters Resistance Patterns in Aedes aegypti in Tapachula, Mexico Karla Saavedra-Rodriguez, Alma Lopez-Solis, Francisco Solis-Santoyo, Patricia Penilla
4:40	209	Evaluating the efficacy of ReMoa Tri against native Aedes taeniorhychus populations in Charlotte County, Florida, USA Beth Kovach, Scott D. Schermerhorn
4:50	210	Refinement of AGDISP for wide-area space sprays in mosquito control Jane Bonds, David Brown
5:00	211	Re-purposing oral flea-and-tick products (=isoxazoline drugs) for mosquito control Emily Gisi, Olajumoka Adewale, Jefferson Vaughan

Latin American Symposium III

Moderator: Grifith S. Lizarraga

4:00 PM - 5:30 PM *Meeting Room: 202*

Eficacia del Adulticida ReMoa Tri Contra Aedes aegypti 5:10 Resistentes de San Juan, Puerto Rico Luis Pérez, Luis Marrero, Reynaldo Morales, Joanelis Medina-Quintana, Julieanne Miranda-Bermúdez, Grayson Brown **Fostering Community Engagement Through Schools:** 4:00 185 Integrating IIT-SIT for Aedes Control in Mexico Norma Pavía-Ruz, Josué Villegas-Chim, Emilio Trujillo-Peña, David Chav-Hernández. Wilbert Bibiano-Marín. Azael Che Mendoza, Abdiel Martín-Park, Yamili Contreras-Perera, Anuar Medina-Barreiro, Zhyiong Xi, Pablo Manrique-Saide Implementation research prior to the release of male 186 4:10 mosquitos in support for IIT-SIT population suppression of Aedes aegypti in Mexico Norma Pavía-Ruz, Josué Villegas-Chim, Emilio Trujillo-Peña, David Chay-Hernández, Wilbert Bibiano-Marín, Azael Che Mendoza, Abdiel Martín-Park, Yamili Contreras-Perera, Anuar Medina-Barreiro, Zhyiong Xi, Pablo Manrique-Saide Insecticide susceptibility and resistance mechanisms in Aedes aegypti populations exposed to pirimiphos-methyl 4:20 187 by targeted indoor residual spraying (TIRS) in Merida, Mexico. Gabriela González-Olvera, Alicia Méndez-Manzanero, Anuar Medina-Barreiro, Azael Che-Mendoza, Oscar David Kirstein, Pablo Manrique-Saide, Audrey Lenhart, Gonzalo Vazquez-Prokopec Metabolic Responses in Aedes aegypti: Insights into 4:30 188 **Post-Feeding and Insecticide Exposure Dynamics** Iram Rodriguez-Sanchez, Adriana E. Flores, Rodrigo Morales, Mariana Jimenez 4:40 189 Mosquito taxonomy in Mexico: 200 years of history Aldo Ortega, Jorge Rodríguez 4:50 190 **NASA Satellite Data for Vector Surveillance Toolkits** Helena J. Chapman, Laura M. Judd, John A. Haynes 5:00 191 Omics a new tool for the control of culicidae Gerardo Trujillo, Mariana Jimenez, Maria de Lourdes Ramirez-Ahuja, Iram Rodriguez-Sanchez

Legislative and Regulatory Symposium II Moderator: Mark Clifton

Meetin	g Room	208 B
4:00	193	California Senate Bill 1251: Enhancing Public Health through Mosquito Abatement Inspections in Electrical Utility Vaults Jodi Holeman
4:15	194	Legislation and Public Health: Illinois Mosquito Abatement Districts' Role in Shaping Pesticide Policy Mark Clifton
4:30	195	Florida's Response To Unwarranted Surveillance Nicholas Lefkow, Aaron Lloyd, David Hoel
4:45	196	Would you like I.C.E. with that? An all-encompassing guide to living with the new mandates of EV compliance in California. David Wexler, Casey Stevenson
5:00	166	Trading mosquitoes for metrics: Florida's Special District Accountability Act puts Independent Mosquito Control Districts under the microscope Keira Lucas
5:15	N	ourney of 329 miles: The long road to expanding the Collier losquito Control District's boundaries onathon Little
Operations, Response and Planning for Vector Control Moderator: Jake Hartle 4:00 PM - 5:30 PM Meeting Room: 208 A		
4:00	197	Streamlining Mosquito Arbovirus Surveillance: In-House Data Migration to Web-Based Software Alexis De La Cruz, Yaziri Gonzalez
4:10	198	A Century of Progress in Indian River Mosquito Control District Sherry Burroughs
4:20	199	From Data to Decision-Making: Developing an Automated Dashboard for Mosquito Surveillance in

4:00 PM - 5:30 PM

Chicago

Blanco, Janna L. Kerins

Alexandra Gagner, Jepchumba Koech, Jonathan Levy, Brandon Bernhardt, Deniz Yuce, Peter Ruestow, Claudia

4:30	200	What do you do in the winter? Immature mosquito surveillance outside the "mosquito season" in Northern Virginia. Joshua Smith, Tilde Hoff, Rachel Kempf, Andrew Lima, Lauren Lochstampfor
4:50	202	Assessment of Common Carbon Dioxide Sources Used for Mosquito Trapping Sarah Wheeler, Daniel Mendoza, Mario Novelo, Kara Kelley
5:00	203	Arbovirus Surveillance in Polk County Mosquito Control Jackson Mosley, Hugo Ortiz-Saavedra
5:00	204	MATE: Mosquito Abatement Through Economic Empowerment in Rural Ethiopia Eric Haas-Stapleton, Dereje Alemayehu, Ryan Clausnitzer

Young Professionals Symposium: Career Roundtables

Moderator: Vilma Cooper, Kassidy Caride, Kyndall Dye-Braumuller, Drew

Lysaker, Andrew Rivera, Chloe Wang

4:00 PM - 5:30 PM *Meeting Room: 201*

5:30 PM - 6:30

Young Professionals Social (Invitation Only Event)
207

Sponsored By
Valent BioSciences

6:30 PM - 7:30 Past President's Reception (Invitation Only Event)

THURSDAY, MARCH 6th, 2026

8:30 AM - 10:00 AM*
*unless otherwise noted

Adult Control ATSB/SIT/Wolbachia

Moderator: Darrel Bagiotti

8:30 AM - 10:00 AM *Meeting Room: 208 B*

8:30 227 Engineered Nectaries using Capillary Alginate Hydrogel (Capgel) Biomaterials for Attractive Toxic Sugar Bait (ATSB) Platforms

		Bradley Willenberg, Christopher Bibbs, Evelyn J. Franco, Diane Roach, Jordyn Diaz, Ailed Sanchez
8:40	228	Evaluating the Efficacy of Outdoor Residual Spraying (ORS) for Aedes aegypti Control in Ponce, Puerto Rico Sydney Crawley, Nexilianne Borrero-Segarra, Julieanne Miranda-Bermúdez, Josiah Ritchey, Grayson Brown
8:50	229	First year of targeted sterile insect releases to control Aedes aegypti in the West Valley region of southern California Solomon Birhanie, Jennifer Castellon, Michelle Brown
9:00	230	Suppression of Aedes aegypti using Incompatible Insect Technique on Virgin Gorda, British Virgin Islands Johanna Ohm, Amy Lynd, Charlotte McDevitt, Anetia D. Herbert, Angel R. Cupid, Vernessa R. Bellot, Bradley White, Jacob Crawford
9:10	231	Advancements for the SIT program for Aedes aegypti suppression in Lee County, FL. Rachel Morreale, Steven Stenhouse, Johanna Bajonero, Danilo Carvalho, Aaron Lloyd, David Hoel
9:30	233	Evaluations of novel attractants, repellents, and traps at Anastasia Mosquito Control District of St. Johns County, Florida Whitney Qualls, Rui-de Xue
9:50	235	Optimization of irradiation sterility dose in Aedes aegypti for sterile insect technique (SIT) project in Orange County, California Chloe Wang, Timothy Morgan, Sokanary Sun, Amber Semrow
Adult Vector Control and Vector-Borne Diseases Surveillance Moderator: Kevin A. Caillouet 8:30 AM - 10:00 AM Meeting Room: 208 A		
8:30	236	Estimating ZIKV seroprevalence in a DENV endemic population: the use of blood donors and multiplex serology to monitor arbovirus outbreaks in the Dutch Caribbean Louella Kasbergen
8:40	237	Senecio sterile mosquito hub – optimizing the production process meeting commercial real world requirements Hanan Lepek

9:00	239	Age Grading Mosquitoes, Culex tarsalis, and Culex pipiens In the working environment. Danny Miller
9:10	240	An operational approach to standardizing mosquito borne disease response plans in Lee County, Florida. Edward Foley, David Hoel, Aaron Lloyd
9:20	241	Insecticide resistance cage trial results for Eastern Equine Encephalitis vectors in Massachusetts Priscilla Matton, Kaitlyn O'Donnell, Derek Drews
9:30	242	Mosquito Sugar Feeding and Survivorship on Endemic Flowers of the Greater Salt Lake Area Ella Branham, Irvane Nelson, Ilia Rochlin, Thomas Widmer, Nathaniel Byers, Gunter C. Muller, Ary Faraji, Christopher Bibbs
9:40	243	UV or not UV: Prey Recognition and Crypsis in the Pigmented Larvae of <i>Toxorhynchites</i> Christopher Bibbs, Christian Furness
9:50	244	Embracing a new approach to work distribution, breaking down barriers, and getting back to breeding sites more swiftly Salvador Becerra, Gregorio Alvarado, Antonio Molina, Marko Petrovic, Edward Prendez
Application of GIS for Vector Control and Surveillance Moderator: Milton Sterling 8:30 AM - 10:00 AM Meeting Room: 202		
8:30	218	Should routine surveillance traps be placed in problem spots or in a uniform grid? Kevin A. Caillouet, Nicholas DeLisi, Joshua A. Foulon, Mark Myer, Hieu Duong, Calvin Smotherman
8:40	219	Ticks and biting midges: VectorSurv tools for "other vectors" Lincoln Wells
8:50	220	Using Smarter Tools to Strengthen Mosquito Control Strategies in Chicago, 2023 Alexandra Gagner, Jepchumba Koech, Bethlehem Solomon, Claudia Blanco, Stephanie R R. Black, Janna L. Kerins, Peter Ruestow
9:00	221	Using UAS with FieldSeeker GIS Software and ArcGIS Online

Chad Minteer

9:10	222	Changes: A 66-yr historical record of the Minneapolis/St. Paul mosquito fauna including notes on range shifts of Minnesota species Diann Crane, Carey LaMere, Scott Larson
9:20	223	Drone-Based LiDAR Mapping of Mangrove Microtopography for Targeting Aedes taeniorhynchus Production Sites Atom Rosales, Rachel Bales, Gabriel Katz, Olivia Konieczny, Joe Bonnacorsi, Keira Lucas
9:30	224	Invasive Mosquito Species Monitoring/Surveillance in Lee County Florida Milton Sterling
9:40	225	Looking for Life in the Margins: Enhanced surveillance in an outbreak of locally acquired malaria Max Dersch, Christopher Lesser, Mark Latham, Katie Hare
9:50	226	What's new with VectorSurv? Tim Valdepena
Diseases and Vector Studies Moderator: Melissa S. Nolan 8:30 AM - 10:00 AM Meeting Room: 209		
8:30	245	Ecologic factors contributing to West Nile virus hyperendemicity in South Carolina, USA Melissa S. Nolan, Kyndall Dye-Braumuller, Kia Zellars, Madeleine Meyer
8:40	246	Heartworm infection rates across the Sacramento and Yolo counties Mario Novelo
8:50	247	Lack of competence of U.S. mosquito species for circulating Oropouche virus Alexander Ciota, Anne Payne, Jessica Stout, Peter Dumoulin, Lea Heberlein, Alan Dupuis
9:00	248	Determining the Epidemic Potential of Ross River Virus in the Continental United States Through the Anthropophilic Disease Vector, Aedes albopictus. Joseph Spina
9:10	249	Novel Tick-Borne Pathogen <i>Candidatus</i> Midichloriaceae Causing First Trimester Pregnancy Loss

		Thao Truong, Behzad Naiafian, Abelardo Moncayo, Lili Tao, Joshua Lieberman, Hernán Correa	
9:20	250	The Effects of Climate Change on Mosquitoes and Mosquito-borne Disease in Iberia Parish, Louisiana David Martin	
9:30	251	Validation of an internal tick RNA control for use in viral detection assays on the Rocky Mountain wood tick (<i>Dermacentor andersoni</i>) Kelsey Mitchell, Mikenna Smith	
9:40	252	When it rains it pours: Navigating the challenges of Pasco County's lively arboviral season and enhancing emergency response strategies Agne Prasauskas, Adriane Rogers	
9:50	253	Wyoming's first tick surveillance and pathogen testing program: Initial collections & Colorado Tick Fever Virus infection results Mikenna Smith, Kelsey Mitchell	
Vector and Vector-borne Disease Management: A European Perspective Symposium I Moderator: Alexandra Chaskopoulou 8:30 AM - 10:00 AM Meeting Room: 201			
8:30	212	Integrated Mosquito Management (IMM) in Europe and the role of the European Mosquito Control Association Sandra Gewehr	
8:45	213	There is nothing simple about vector control Marieta Braks	
9:00	214	Mosquito control in response to local dengue transmission in Europe Grégory L'Ambert	
9:15	215	Identifying mosquitoes for surveillance and control in Europe Filiz Gunay, Nathan Burkett-Cadena, Lindsay Campbell, Barry Alto	
9:30	216	In search of new tools towards improving sand fly management strategies in Europe Alexandra Chaskopoulou	
9:45	217	Eighteen years of pan-European vector mapping	

John Newman, Caitlin Hughes, Karen Bloch, Khalil Deveaux,

Francis Schaffner, Marieta Braks, Guy Hendrickx, Cedric Marsboom

8:30 AM - 10:45 AM Exhibits Open

Hall A

10:00 AM - 10:45 AM Break in Exhibit Hall

Hall A

Sponsored By SC Johnson

10:45 AM - 12:15 PM* *unless otherwise noted

Genetic Studies of Vector Species

Moderator: Colby Colona

10:45 AM - 12:15 PM Meeting Room: 209

Elucidating the molecular epidemiology of West Nile 10:45 279 Virus in Southern Nevada

Austin Tang, William Bendik, Vivek Raman, Chad L Cross,

Louisa Messenger

Amplicon sequencing identifies novel insecticide resistance mutations associated with changes to PBO 10:55 280 synergy in pyrethroid-resistant Anopheles gambiae s.l. from the Democratic Republic of Congo

> Bethanie Pelloquin, Fiacre Agossa, Holly Acford-Palmer, Tiffany Clark, Sheila Ogomoa, Miriam Williams, Narcisse Basosila, Francis Watsenga, Emery Metelo, Richard M. Oxborough, Yibayiri Osee Sanogo, Ferdinand Ntoya, Emma Collins, Sophie Moss, Charles McLoughlin, Monica Campos, Jody Phelan, Mark Rowland, Thomas Walker, Noboru Minakawa, Emile Zola Manzambi, Eric Mukomena,

Susana Campino, Louisa Messenger

Genetic Structure and Evidence of Introgression in 11:05 281 Saudi Arabian Aedes aegypti Populations

Abadi M. Mashlawi. Dario Balcazar. Andrea Gloria-Soria.

Cathy Walton

Identification of the 1016Gly and 989Pro knockdown 11:15 282 resistance mutations in Florida, USA Aedes aegypti

> Neil Sanscrainte, Alden Estep, Frieda Lamberg, Darrel McStoots, Susan Gosselin

11:25	283	Identifying key olfactory co-receptors Aedes aegypti use to distinguish attractive human skin commensal communities Kaylee Marrero, John S. Castillo, Andre L. Da Costa Silva, Matthew DeGennaro
11:35	284	Operational Relevance and Efficacy of Microplate Assays for Evaluating Potential Naled Resistance in Lee County, Florida Nick Cotter
11:45	285	Overexpression of cytochrome P450s and cuticular genes may be driving reduced PBO synergy in intensely resistant populations of the major malaria vector <i>Anopheles coluzzii</i> Bethanie Pelloquin, Moussa Sylla, Noboru Minakawa, Mark Rowland, Louisa Messenger
12:05	287	Whole transcriptome sequencing reveals distinct insecticide resistance mechanisms across the lifespan of the major malaria vector <i>Anopheles arabiensis</i> Bethanie Pelloquin, Jackline Martin, Nancy Matowo, Ecaterine Edith Vamos, Natacha Protopopoff, Noboru Minakawa, Louisa Messenger

Insecticide Resistance Workshop: Review of Semi-Field Trial Best Practice Document

Moderator: Laura Harrington, Aine Lehane

10:45 AM - 12:15 PM *Meeting Room: 201*

Integration of Drone Technology to Protect Public Health Symposium

Moderator: Joel Buettner

10:45 AM - 12:15 PM *Meeting Room: 208 B*

10:45	266	Enhancing Vector Control Through UAS Integration: Precision Mosquito Management with PAMAS Jose Martin
10:57	267	Using Unmanned Aerial Systems (UAS) to treat inaccessible habitat that supports the production of mosquitoes in Benton County. Rodolfo Cruz
11:09	268	Introducing drone larviciding to North Carolina: Brunswick County goes airborne Michael Doyle, Abram Young
11:45	263	AMCA Drone Program Update 2025

Joel Buettner

Larval Vector Control Moderator: Norbert Becker

10:45 AM - 12:15 PM *Meeting Room: 208 A*

10:45	271	A Novel Eco friendly Control of Arboviruses Vectors (Aedes aegypti and Ae. albopictus) Using Trachyspermum ammi seed extract -Mediated Silver Nanoparticles (AgNPs) Shabab Nasir
10:55	272	Field evaluation of ground-based ULV liquid larvicidal effects on <i>Aedes aegypti</i> larvae in Oxitec Release Boxes Catherine Pruszynski, Eldred Wirsching
11:05	273	Monitoring of resistance in <i>Aedes aegypti</i> population from different habitats against different insecticides Shabab Nasir, Awais Chatha
11:15	105	Lessons learned from a crisis response workshop session for local mosquito control programs throughout Puerto Rico Angana Roy, Noemi Martinez-Tull, Amarilys Asencio-Torres
11:25	275	Evaluation of Altosid XR, Tekko 0.2G, and 0.5G for Culex larval control under field and semi-field conditions in suburban Cook county, IL Patrick Irwin, jacqueline Sanderson
11:35	276	Exploring Mosquitofish as an Operational Tool for Mosquito Control Rachel Bales, Atom Rosales, Suzanne Li, Keira Lucas
11:45	277	Preliminary evaluation of toxicity of two essential oils to Aedes taeniorhynchus larvae. Lawrence Hribar
12:05	278	The use of microbial control agents and copepods in an integrated control programme against the Asian Tiger Mosquito Aedes albopictus in Germany Norbert Becker

12:15 PM - 1:45 PM Lunch On Own

1:45 PM - 3:15 PM*
*unless otherwise noted

Danger From Below: Challenges and Solutions to Control Mosquito

Populations in Catch Basins Symposium

Moderator: Tianyun Steven Su

1:45 PM - 3:15 PM Meeting Room: 208 A

1:45	303	The History and Efficacy of Sumilarv Steve Gullickson
1:55	304	Storm water catch basins: The bane of mosquito control districts Patrick Irwin
2:05	305	Efficacy trials of Sumilarv in northwest Riverside County, CA Angela Caranci
2:15	306	A case for looking beyond emergence inhibition Justin Harbison
2:25	307	Efficacy trials of Sumilarv in Grand Island, Nebraska Thomas Janousek
2:35	308	A novel approach to drain management James Will
2:45	309	Efficacy Trials Using Sumilarv in Lee County, Florida Constance Darrisaw, David Hoel, Aaron Lloyd
2:55	310	Comparative activity and efficacy of Sumilarv 0.5G in simulated catch basins against urban mosquito species Tianyun Steven Su

New Vector Control Tools: UAS and Artificial Intelligance

Moderator: Greg Williams

1:45 PM - 3:15 PM *Meeting Room: 202*

1:45 288 Challenges of Operating Unmanned Aerial Systems in Rural Areas

Rick Ortiz, iver Romero, Gregorio Alvarado, Edward Prendez,

Kim Hung, Marko Petrovic

Improving IDX artificial intelligence vector identification 1:55 289 tool for the identification of cryptic species: Culex pipiens pipiens and Culex quinquefasciatus

Autumn Goodwin, Roy Faiman, Hannah Markle, Allysa Schultz, Sameerah Talafha, Thomas Jenkins, Margaret Glancey, Andrea Gloria-Soria, Norah Saarman, Tristan Ford

2:05	290	Predicting Geographic Expansion and Genetic Adaptation of Aedes aegypti in Southern Nevada using Machine Learning Techniques Karen L. Figueroa Chilito, William Bendik, Vivek Raman, Chad L Cross, Louisa Messenger
2:15	291	A revised model to predict Rift Valley fever virus transmission risk for livestock Assaf Anyamba, Lory Willard, Heidi Tubbs, Karlyn Harrod, Bhaskar Bishnoi, Stephanie S. Uz, Claudia Pittiglio, Seth Gibson
2:25	292	From Bites to Bytes: The opportunities, successes, and challenges of mosquito Big Data Samuel Rund
2:35	293	Machine Learning and Artificial Intelligence for Increasing Mosquito Surveillance Efficiency: An Update on the Aedes Egg Counter App Kyndall Dye-Braumuller, Andre L. Da Costa Silva, Jun Zhou, Matthew DeGennaro, Sarah M. Gunter, Melissa S. Nolan
2:45	294	Technical progress of Scout, an imaging attachment using artificial intelligence for remote automated assessment of vector abundance and species diversity in mosquito traps Jewell Brey, Jaykob Cave-Stevens, Hannah Markle, Khushi Gupta, Sameerah Talafha, Thomas Jenkins, Vicky Ikonomidou, Sanket Padmanabhan, Mohan Pushadapu, George Constantine, Tristan Ford, Roy Faiman, Autumn Goodwin
2:55	296	Using Birdsong Surveillance and Machine Learning via BirdNET to Help Identify Reservoirs of West Nile Virus Heather Penton, Mark Myer, Nicholas DeLisi, Kevin A. Caillouet

Socio-behavioral aspects of sustainable public health vector control Symposium

Moderator: Andrew Lover

1:45 PM - 3:15 PM Meeting Room: 208 B

Project Listen: Investigating the Experiences and 1:45 297 Challenges of Public Health & Vector Control Professionals in New England

Johanna Ravenhurst, Nora Finnerty, Genesis Medina, Ariel Scalise, Emilia Zaentz, Sarah Goff, Andrew Lover

	. 98	Training and Professional Development Needs of Vector Surveillance and Control Professionals Aine Lehane, Emily Mader, Laura Harrington
2:09 2	. 99	Let's talk about ticks: The developing strategies for tick communication Yanitza Cruz Crespo, Shannon Cruz, Emily Struckhoff, Maria Luisa Tejada de Rivero Sawers, Erika Machtinger
2:21 3	300	Extension Ticks All the Boxes: Navigating Extension Needs and Public Health Collaborations in the Ohio River Valley Erika Machtinger, Emily Struckhoff, Olivia Bognanni, Drew Lysaker, Indira Chakravarti
2:33 3	301	Using psycho-social approaches to advance acceptability of effective tick control strategies Heather Kopsco, Linghui Wu, Sung-Joo Lee, Aidan Lee, Yilong Huang, Maria Diuk-Wasser

3:15 PM - 3:45 PM Break
Sponsored By
Veseris

3:45 PM - 5:15 PM*
*unless otherwise noted

Arboviral Surveillance throughout the United States and Surrounding Areas

3:45 PM - 5:15 PM Meeting Room: 208 A

4:00	320	Arboviral Surveillance in Hawaii: Past Experience and Future Initiatives Nathan Tan, Youki Yamasaki, Jeomhee Hasty, Myra Ching-Lee, Remedios B. Gose, Kristen Taniguchi, Edward P. Desmond, Sarah Kemble, Matthew Kurano
4:15	321	Arboviral Surveillance in Maricopa County, Arizona James Will, John Townsend
4:30	322	Arboviral Surveillance in St Johns County, Florida Steve Peper, Edward Zeszutko
4:45	323	Methods, Challenges, and Opportunities for Arboviral Surveillance in the US Tropical Islands of the Caribbean and Pacific Luis Quintanilla, Grayson Brown, Nexilianne Borrero-Segarra

Arboviral Surveillance throughout the United States and Surrounding Areas Symposium

Moderator: Steve Peper

3:45 PM - 5:15 PM Meeting Room: 208 A

Social Media Symposium Moderator: Nicole Graves

3:45 PM - 5:15 PM *Meeting Room: 202*

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3:45	311	Ring Neighbors, Verified Agency Nicole Graves
4:00	312	Neighbors love free stuff: Using Nextdoor as an outreach platform Rachel Curtis-Robles, Kacie Ring, Tara Roth, Angie Nakano, Arielle Crews, Theresa Shelton
4:15	313	Maximizing Community Engagement and Disease Prevention Through Social Media Veronica Rodriguez, Jennifer Ramírez López
4:30	314	Leaning on Younger, Cooler Seasonal Staff for Social Media Content Alex Carlson, Kathy Beadle
4:45	315	Building Bridges: Effective Communication Practices for Organizations Jenifer McBride, Mark McCreary

5:00 Roundtable Discussion

Vector-Borne Diseases and Inventions on Vectors

3:45 PM - 5:15 PM Meeting Room: 208 B

3:45	324	Integrating eDNA and qPCR to distinguish between Aedes aegypti and Aedes sierrensis reproduction sites Eric Haas-Stapleton, Annika Olson, Miguel Barretto, Ryan Clausnitzer
4:05	326	Predicting Aedes triseriatus Parity and Age with Mid- Infrared Spectroscopy Charlie Sither, Mark Rothermund, Bradley Guilliams, Scott Huffman, Brian Byrd
4:15	327	Effects of seasonality and developed land cover on Culex mosquito abundance and microbiome diversity

			Jiayue (Gabı Kim, Chris S	riel) Yan, Kirk Green, Kylee Noel, Chang-Hyun tone
	4:25	328	nigripalpus	oia of Blood: Host Preference of <i>Culex</i> in Collier County belle, Lawrence E. Reeves, Robert Straser, inig
	4:35	329	Changes in reported local mosquito surveillance and control capacity between 2017 and 2023 Angana Roy	
		Base Everyt	thing on Surveillance ose	
	4:55	331	Lee County Mosquito Control District's Response to Imported Oropouche Virus in Lee County, Florida. Aaron Lloyd, David Hoel	
5:05 332 enhance		enhance vir	oncurrent ingestion of microfilaria and virus rus transmission ell, Jefferson Vaughan	
6:00 PM - 7:00 PM			To S	re-Banquet Social errace ponsored By zelis
7:00 PM - 9:30 PM 8:30 AM - 9:30 AM			В. S	anquet allroom A ponsored By xitec
				MCA Annual Members Meeting 02
9:30 AM - 12:30 PM			PM	Board of Directors Meeting