2020
West Central Mosquito And Vector Control Association
46th Annual Meeting

Two Rivers Convention Center
Grand Junction, CO
March 4th and 5th of 2020
2019 WCMVCA Officers

Ary Faraji, President
Scott Bradshaw, President Elect
Gary Hatch, Treasurer
Tom Janousek, Secretary
Broox Boze, Executive Board Member
Elizabeth VinHatton, Executive Board Member
Michael Lamere, Executive Board Member
Open Position, Executive Board Member
Marshall Lipps, Past President

2019-2020
Vendor and Sustaining Members:

ADAPCO
AMVAC Environmental Products
Central Life Sciences
Clarke
Frontier Precision
Univar
Van Diest Supply Company
Vector Disease Control International

West Central Mosquito
And Vector Control Association

46th Annual Meeting

Program Brochure & Meeting Supplies
Sponsored by:

TBA

TUESDAY March 3rd
1:00-4:30 Pre-meeting Activities: 
*Tick Identification and Biology*
By: Lorenza Beati
Curator for U.S. National Tick Collection, Southern Georgia University
Grand River MCD office
531 Maldonado St., Grand Junction, CO

Sponsored by: TBA

6:00 pm WCMVCA Board Meeting

**WEDNESDAY March 4th**

7:00-4:00 Meeting Registration
Sponsored by: TBA

7:00-8:15 Submission of Presentations
Audio Visual organizer:
Davis County Mosquito Abatement District

Audio Visuals & Conference Equipment
Sponsored by: TBA
WEDNESDAY MARCH 4: 1st MORNING SESSION:
Moderated By: Ary Faraji
WCMVCA President

8:30-8:35 Opening Comments
8:35-8:45 Welcome Address
“Visit Grand Junction”
TBD
8:45-9:15 **Keynote Speaker:**

*Ticks in the U.S. What’s new?*
Lorenza Beati, Curator for U.S. National Tick Collection, Southern Georgia University

9:15-9:30 **AMCA Update**
Ary Faraji, Executive Director, Salt Lake City Mosquito Abatement District, Salt Lake City, UT

9:30-9:45 **Mass trapping for mosquito surveillance and reduction**
Lee Cohnstaedt and Robert “JR” Ewing, USDA, Manhattan, KS.

9:45-10:00 **Vendor Introductions:**
Broox Boze, Manager, Vector Disease Control International, Loveland, CO
During Break:

Photos from Grand River
by Grand River Mosquito Abatement
District employees

10:00-10:30  
Morning Break  
Sponsored by:  
VDCI

WEDNESDAY MARCH 4: 2nd MORNING SESSION:  
Moderated by: Scott Bradshaw,  
Tooele Valley Mosquito Abatement District

10:30-10:50  Apprehend – A Biological  
Approach to Bed Bug Treatment,  
Univar Solutions, David Wright,  
Salt Lake City, UT

10:50-11:15  Drone Presentation - “Waiting for Title”  
Tim Moore, District Manager,  
Grand River MCD  
Grand Junction, CO

11:15-11:30  The contribution of Culex pipiens to the West Nile virus transmission cycle in Colorado  
Hannah Romo, Broox Boze, Tracy Woodall, Roxanne Connelly  
CDC, Fort Collins, CO

11:30-11:40  Analysis of Larval Control products and Vegalabs Biocontrol solutions  
Broox Boze, Operations Manager,  
Vector Disease Control International,  
Loveland, CO
11:40-11:50  Trapping for control
Carter Synhorst and Doug Fledderjohn. Grand River Mosquito Control District.

11:50-12:00  Hay field flooding and other less-obvious sources of mosquitoes in the Kremmling Valley
Kelsey Renfro, Anna Wanek

12:00-1:15  Lunch & WCMVCA Business Meeting
Sponsored by:  
Valent Biosciences

WEDNESDAY March 4: 1st AFTERNOON SESSION:
Moderated By: Broox Boze, Vector Disease Control International

1:15-1:30  Suspected hybridization in Colorado Culex? Preliminary molecular microsatellite analysis.
Stephanie Musick, Metropolitan State University of Denver

1:30-1:45  A Tight Situation: Cryptic oviposition by *Aedes aegypti* and *Ae. albopictus*
Tyler Holmes, Metropolitan State University of Denver

1:45-2:15  “Waiting for Title”
Jeff Colton, NOAA, Grand Junction, CO

2:15-2:45  HEMP Talk
Colorado Hemp Solutions
During Break:
**Poster Session**

Larval Violence in Neotropical Jungle Mosquitoes: Investigations of Interspecific Predation Mechanics in Two Sabethine Mosquitoes Taylor Boyd & Shannon MacFadden, Metropolitan State University of Denver

2:45-3:15

**Afternoon Break**

Sponsored by: ADAPCO

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**WEDNESDAY March 4: 2nd AFTERNOON SESSION:**

**Moderated By:** Elizabeth VinHatton, New Mexico Dept of Health Zoonotic Disease Unit, Santa Fe, NM

3:15-3:45  **MosquitoMan: Invasion of the Man Biters. Selections from episode 2: “Death on the Wing”** Robert Hancock, Metropolitan State University of Denver

3:45-4:30  **“Waiting for Title”**

Timothy Winegard, Author of: *The Mosquito: A Human History of Our Deadliest Predator*

Colorado Mesa University, Grand Junction, CO

4:30-5:00  **Book Signing:** by Timothy Wingard Author: *The Mosquito: A Human History of Our Deadliest Predator* NY Times Bestseller
THURSDAY March 5th

7:00-9:00 Meeting Registration Sponsored by: TBA

7:00-8:20 Wednesday Morning Breakfast Sponsored by: WCMVCA

8:30-8:35 Morning Introductions and announcement
8:35-8:55   **PCR Testing for Polymer Chain Reaction**, Cameron Gundry, Co-Diagnostics, Inc. Salt Lake City, UT

8:55-9:10/ **Learning PCR using the Magnetic Induction Cycler**, Ryan Lusty, Manager, Magna Mosquito Abatement District, Magna, UT

9:10-9:25 **Public Health Response to a Plague Epizootic in Colorado** Janine Runfola and Gilbert Cazier, Environmental Health Specialist, Tri-County Health Department, Aurora, CO

9:25-9:45/ **Wet or dry and when to treat: an evaluation of larval control options in flood-irrigated pastures** Desiree Keeney, Ada County, Boise, ID

9:45-10:00 **Aedes Aegypti! Now what do we do?** Doug Fledderjohn, Grand River MCD Grand Junction, CO

10:00-10:30 **Morning Break Sponsored by:** Clarke

**WEDNESDAY March 6: 2nd MORNING SESSION:** Moderated by: Michael Lamere, Teton County Weed and Pest

10:30-10:45 **What makes a software project successful? Notes from the field** Tyler McGarrity Frontier Precision, Inc, Jerome, ID
10:45-11:05  **Introduction to WALS**  
Drew Hunter,  
Valent Biosciences,  

11:05-11:15  **Why are molecular biologists so needy?**  
Joanie Kenney, CDC, Fort Collins, CO  

11:15-11:30  **Insectary – “Waiting for Title”**  
Mikenna Smith, Program Manager,  
Teton County Weed and Pest,  
Jackson Hole, WY  

11:30-11:45  **A Technique you can count on:**  
Age-grading mosquitoes by measuring wing scale loss  
Lyndsey Gray, Colorado State University, Fort Collins, CO  

11:45-12:00  **What do you know, 20 years of WNV in the US**  
Janet McAllister, CDC, Fort Collins, CO  

**ADJOURN**
Notes:
See you at the 47th Annual Meeting of the WCMVCA to be held in New Mexico

westcentralmosquitoandvector.org
Past Presidents
1975 -- Louis Ogden, Colorado
1976 -- Donald Forcum, Wyoming
1977 -- Fred Malone, New Mexico
1978 -- Harold Butterfield, Nebraska
1979 -- John Lloyd, Wyoming
1980 – Jay Linam, Colorado
1981 -- Garth Graves, New Mexico
1982 -- Bruce Francy, Colorado
1983 -- Everett Spackman, Wyoming
1984 -- William Rapp, Jr. Nebraska
1985 -- Donald Forcum, Wyoming
1986 -- Gerald Hollandsworth, Colorado
1987 -- Curtis Montman, New Mexico
1988 -- Chester Moore, Colorado
1989 -- Kenneth Minson, Utah
1990 -- Kenneth Conright, Colorado
1991 -- Gary Maupin, Colorado
1992 -- Jim Harrison, Colorado
1993 -- Sammie Dickson, Utah
1994 -- Fred Holbrook, Wyoming
1995 -- Eugene Mortimer, New Mexico
1996 -- Pamela Reynolds, New Mexico
1997 -- C. Mills Reeves, Jr., Texas
1998 -- Wayne Kramer, Nebraska
1999 -- Joseph Targehetta, New Mexico
2000 -- Gary Hatch, Utah
2001 -- Mike McGinnis, Colorado
2002 -- Brad Asay, Wyoming
2003 -- Monte Deatrich, Colorado
2004 -- Evan Lusty, Utah
2005 -- Tom Janousek, Nebraska
2006 -- Mike Doyle, Colorado
2007 -- Robert Brand, Utah
2008 -- Janet McAllister, Colorado
2009 -- Keith Wardlaw, Wyoming
2010 -- Tony Stilwell, Colorado
2011 -- Brian Hougaard, Utah
2012 -- Kristine Bennett, Colorado
2013 -- Zane McCallister, Colorado
2014 -- Janine Runfola, Colorado
2015 -- Jessica Schurich, Colorado
2016 – Stephanie Whitman, Wyoming
2017 – Francis Bosch, North Dakota
2018 – Marshall Lipps, Colorado
2019 – Ary Faraji, Utah