

2008

**West Central Mosquito
and
Vector Control
Association**

-34th Annual Meeting-



Holiday Inn Rocky Mountain Park
Estes Park Conference Center
Estes Park, CO
February 6-7, 2008

2007 WCMVCA Officers

Robert Brand, President

Janet McAllister, First Vice President

Keith Wardlaw, Second Vice President

Steve DeFeyter, Treasurer

Sara Evans, Secretary

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----- TUESDAY, FEBRUARY 5 -----

4:00-8:00 Registration and Submission of
PowerPoint Presentations

6:00- Board Meeting

----- WEDNESDAY, FEBRUARY 6 -----

6:30-4:00 Registration

REGISTRATION TABLE Sponsored
by **VALENT BIOSCIENCES**

6:30-8:15 Submission of Presentations

AUDIO/VISUALS Sponsored by
**COLORADO MOSQUITO
CONTROL, INC**

6:30-8:30 **EARLY MORNING COFFEE:**
Sponsored by **VALENT
BIOSCIENCES**

1st MORNING SESSION:
Moderated By: Robert Brand, Tooele
Valley MAD, Grantsville, UT

8:30-8:40 Introduction: Robert Brand, President
WCMVCA, Grantsville, UT

- 8:40-8:50 **“AMCA West Central Region Activities and Information” Gary Hatch**, AMCA Regional Director, Davis Co. MAD, Kaysville, UT
- 8:50-9:50 **Keynote Speaker: “Vector-Virus-Vertebrate Interactions” Stephen Higgs**, Professor University of Texas Medical Branch, Galveston, TX
- 9:50-10:20 **MORNING BREAK: Sponsored by COLORADO MOSQUITO CONTROL, INC**

2nd MORNING SESSION:
Moderated by: Janet McAllister, CDC,
Fort Collins, CO

- 10:20-10:50 **VENDOR INTRODUCTIONS**
- 10:50-11:10 **“Plague and Tularemia in Dogs and Cats, New Mexico, 2004-2007” Pamela Reynolds, Elizabeth Hatton and Paul Ettestad**, New Mexico Dept. of Health, Santa Fe, NM
- 11:10-11:30 **“Analysis of Pathways for Release of Rift Valley Fever Virus into the Continental United States” Thomas Kasari**, USDA/APHIS, Ft. Collins, CO. **Deborah Carr**, Uniformed Services University of the Health Sciences, **Tracey Lynn, J. Todd Weaver**, USDA/APHIS .
- 11:30-11:45 **“Blood Feeding Behavior of Vesicular Stomatitis Virus Infected *Culicoides sonorensis* (Diptera: Ceratopogonidae)” Kristine Bennett, Melissa Stuart, Jessica Hopper, Barbara Drolet**, USDA/ARS/Arthropod Borne Animal Diseases Research Laboratory, Laramie, WY

11:45-12:00 **"Effective Use of Larvicides; Making the Most of Every Treatment" Stephanie Whitman, Valent BioSciences, Laramie, WY**

12:00-1:00 **LUNCH & WCMVCA BUSINESS MEETING: Sponsored by B&G CHEMICAL, BAYER ENVIRONMENTAL SCIENCE, and WCMVCA**

1st. AFTERNOON SESSION:

Moderated by: Keith Wardlaw, City of Laramie, Laramie, WY

1:00-1:20 **"Ecology of the Rocky Mountain Wood Tick (*Dermacentor andersoni*) in the Northern Colorado Front Range" Lars Eisen, Colorado State University, Ft. Collins, CO, Rebecca Eisen, Joseph Piesman, Centers for Disease Control & Prevention, Luis Ibarra-Juarez, Universidad Autonoma de Nuevo Leon.**

1:20-1:40 **"Climate and Vector-Borne Disease" Kenneth Gage, Rebecca Eisen, Ned Hayes and Thomas Burkot, Centers for Disease Control & Prevention, Ft. Collins, CO**

1:40-1:55 **"Human Plague in the Southwestern United States, 1957-2004: Spatial Models of Elevated Risk of Human Exposure to *Yersinia pestis*" Rebecca Eisen, Ken Gage, Brad Biggerstaff, Russell Ensore, John Montenieri, Centers for Disease Control & Prevention, Ft. Collins, CO, Pam Reynolds, Paul Ettestad, Ted Brown, New Mexico Dept. of Health, John Pape, Dale Tanda, Colorado Dept. of Public Health & Environment, Craig Levy, Dave Engelthaler,**

Arizona Dept. of Health, **Jim Cheek**,
Indian Health Services

1:55-2:15 **“Assessments of Spatial Risk for Exposure to Mosquito Vectors and West Nile Virus in Colorado”** **Anna Winters, Bethany Bolling**, Colorado State University, Ft. Collins, CO, **Rebecca Eisen**, Centers for Disease Control & Prevention, **John Pape**, Colorado Dept. of Public Health & Environment, **Chester Moore, Lars Eisen**, Colorado State University

2:15-2:30 **“Managing Maps and Automated Field Data Collection tools: Empowering Your Mobile workforce”** **Ryan Pierson**, Electronic Data Solutions, Jerome, ID, **Larry Metzger**, B&G Chemical

2:30-3:00 **AFTERNOON BREAK:** Sponsored by: **VALENT BIOSCIENCES**

2nd AFTERNOON SESSION:

Moderated by: Tom Janousek, Pest Consulting Services, Omaha, NE

3:00-3:20 **“Nontarget Insect Effects Associated with US Air Force Biting Midge Aerial Spray Operations”**, **Mark Breidenbaugh**, US Air Force Aerial Spray Flight, Youngstown, OH

3:20-3:35 **“Increases in West Nile Neuroinvasive Disease (WNND) Following Hurricane Katrina”** **Kevin Caillouet, Sarah Michaels, Xu Xiong, Dawn Wesson**, Tulane University, New Orleans, LA

3:35-3:50 **“Mosquito Control in North Dakota”** **Angela Balint**, Cass County Vector Control, West Fargo, ND

3:50-4:05 **“Use of Historical West Nile Virus Infection Rates and Vector Indexes in *Culex pipiens* and *Culex tarsalis* vs. Human case Data to establish Mosquito Control Policy in Mesa County Colorado 2007”** Thomas Orr, Mesa Co. Health Dept. Grand Junction, CO

4:05-4:20 **“Public Relations and Media Video”** Gary Hatch, Davis Co. MAD, Kaysville, UT

4:20-4:35 **“Use of RAMP to Enhance WNV Surveillance at the Salt Lake City MAD”** Sammie Lee Dickson, Salt Lake City MAD, Salt Lake City, UT

4:45 **SOCIAL** Sponsored by **CLARKE MOSQUITO CONTROL, INC** and **WELLMARK/CENTRAL LIFE SCIENCES**

----- THURSDAY, FEBRUARY 7th -----

7:00-9:00 **REGISTRATION**

7:00-8:30 **EARLY MORNING BREAKFAST BUFFET & COFFEE:** Sponsored by **OTTERTAIL ENVIRONMENTAL**

1st MORNING SESSION:
Moderated by: Michael Doyle, CDC,
Ft. Collins, CO

8:15-8:30 **“Analysis of a Local Mosquito Population: A Spatial Comparative Analysis of Larval and Adult Mosquitoes”** Marshall Lipps, Colorado Mosquito Control, Inc. Brighton, CO

8:30-8:50 **“The Pareto Principle and Mosquito Control”** Michael McGinnis, Colorado Mosquito Control, Inc. Brighton, CO

- 8:50-9:05 **“Mosquito Abundance and Infectivity as Risk Factors for Human WNV Infection in Colorado, 2003-2006. Janine Bennett, Tri-County Health Dept. Commerce City, CO.**
- 9:05-9:20 **“Sentinel Zones: An Effective Approach to Assessing West Nile Virus Risk?” John Pape, Dale Tanda, Melina Evdemon-Hogan Colorado Dept. of Public Health & Environment, Denver, CO**
- 9:20-9:40 **“Efficacy of a Comprehensive Environmental Mosquito Management Program: A 2007 Case Comparison for Fort Collins and Loveland, Colorado” Jessica Schurich, Michael Weissmann, Colorado Mosquito Control, Inc. Brighton, CO**
- 9:40-9:55 **“Emergency Vector Control in Communities with Limited Resources—A New Guide From ASTHO” Chester Moore, Vector Biology & Control International, Inc, Ft. Collins, CO, ASTHO MCC Team**
- 9:55-10:30 **MORNING BREAK: Sponsored by: ADAPCO**

2nd MORNING SESSION:

Moderated by: Sara Evans, Weld Co. Dept. of Public Health & Environ, Greeley, CO

- 10:30-10:45 **“Comparative Vector Competence for WNV of members of the *Culex pipiens* Complex: *Cx. p. pipiens*, *Cx. p. quinquefasciatus*, and Hybrids” Michael Doyle, Centers for Disease Control & Prevention, Ft. Collins, CO.**

- 10:45-11:00 **“Resistance to Permethrin and Malathion in *Culex tarsalis* Coquillett (Diptera: Culicidae) in Colorado“ Adam Strong, Mike Bignall, Boris Kondratieff, Colorado State University, Ft. Collins CO, Michael Doyle, Colorado Mosquito Control, Inc., Kenneth Nordstrum, Delta County Health Dept., William C. Black IV, Colorado State University**
- 11:00-11:15 **“Detection of Insecticide Resistance Using Technical Grade and Commercially Formulated Insecticides as Substrates in the CDC Bottle Bioassay” Janet McAllister, Centers for Disease Control and Prevention, Ft. Collins, CO**
- 11:15-11:30 **“A Ground ULV Field Trail using AquaHalt™ against *Culex tarsalis* and *Aedes vexans* in Colorado-2007” Tony Stilwell, Colorado Mosquito Control Inc., Brighton, CO**
- 11:30-11:40 **“Introduction to Guardian ULV Foggers” Gale Jirik, ADAPCO, Raton, NM**
- 11:40 **ADJOURN**

Notes

Past Presidents

1974--Archie Hess, Colorado
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--Everert Spackman, Wyoming
1984--William Rapp, Jr. Nebraska
1985--Donald Forcum, Wyoming
1986--Gerald Holandsworth, 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, Utah
2003--Monte Deatrich, Colorado
2004--Evan Lusty, Utah
2005--Tom Janousek, Nebraska
2006--Mike Doyle, Colorado
2007--Robert Brand, Utah
2008--Janet McAllister, Colorado

2007 Annual Meeting Speakers

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