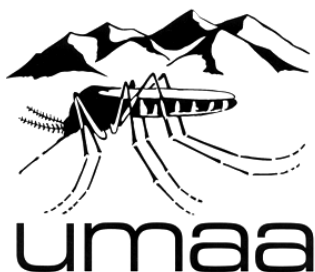


---

68<sup>th</sup>  
ANNUAL CONFERENCE  
OF THE  
UTAH MOSQUITO ABATEMENT  
ASSOCIATION



Provo Marriott Hotel & Conference  
Center 101 West 100 North, Provo,  
Utah 84601

October 4 - 6, 2015

---

# PROGRAM SUMMARY

## Sunday, October 4, 2015

- 3:00 pm – 6:30 pm Registration
- 8:00 am – 7:00 pm Exhibitor Setup  
Arches/Canyon
- 6:30 pm UMAA Board Meeting  
Birch
- 8:00 pm President's Reception  
Arches/Canyon

## Monday, October 5, 2015

- 7:30 am Registration
- 8:30 am Plenary Session  
Zion/Bryce
- 10:00 am Break
- 10:20 am Door Prize Drawing
- 10:30 am General Session  
Zion/Bryce
- Noon Lunch – Arches/Canyon
- 1:30 pm General Session  
Zion/Bryce
- 3:00 pm Break
- 3:20 pm Door Prize Drawing
- 3:30 pm General Session  
Zion/Bryce
- 5:15 pm Adjourn
- 7:00 pm Banquet – Arches/Canyon

## Tuesday, October 6, 2015

- 8:30 am General Session  
Zion
- 8:30 am Trustee Session  
Bryce
- 10:05 am Break
- 10:20 am Door Prize Drawing  
Zion
- 10:30 am General Session  
Zion
- 10:30 am Trustee Session

	Bryce
12:00 pm	Adjourn
12:15 pm	UMAA Annual Business Meeting Birch

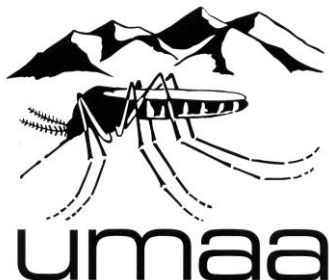
---

WELCOME TO THE

**68<sup>th</sup>**

ANNUAL CONFERENCE

OF THE



UTAH MOSQUITO ABATEMENT  
ASSOCIATION

---

CONFERENCE HOST

Utah County Mosquito Abatement  
Robert Mower, Manager

## MEETING LOCATION

Provo Marriott Conference Center  
101 West 100 North  
Provo, Utah 84601  
October 4-6, 2015

## UMAA OFFICERS AND BOARD OF DIRECTORS

<b>President</b> Bryan Stephens	Brian Hougarrd Scott Bradshaw Bill Cox
<b>President-Elect</b> Bill Cox	Sammie Dickson Gary Hatch Mike Johnson
<b>Vice-President</b> Richard Rigby	Ryan Lusty Robert Mower Gary Nielson
<b>Secretary/Treasurer</b> Eldon Rowley	Robert Phillips Brian Raymond Richard Rigby
<b>Past President</b> Eldon Rowley	Kirk Robbins Chris Rowley Eldon Rowley
<b>Executive Director</b> Randel Sessions	Mike Seely Randel Sessions Mark Stewart
<b>Directors</b> Sean Amodt Joe Archer Ryan Arkoudas	Bryan Stephens Terrie Wierenga Kay Weight Cory Worwood

---

## UMAA COMMITTEE CHAIRMEN

<b>Auditing</b> Richard Rigby	<b>Local Arrangements</b> Robert Mower
<b>Awards</b> Eldon Rowley	<b>Newsletter</b> Randel Sessions
<b>Computer/Data Processing</b> Gary Hatch	<b>Nominating</b> Eldon Rowley
<b>Encephalitis Surveillance</b> Gary Hatch	<b>Operational</b> Brian Hougarrd
<b>Environmental Impact</b> Kirk Robbins	<b>Pesticides</b> Sammie Dickson
<b>Legislative &amp; Resolutions</b> Bill Cox	<b>Policy, Finance &amp; Bylaws</b> Richard Rigby

**Program**

Bill Cox

**Publications**

Sammie L. Dickson

**Public Education**

Gary Hatch

**Mosquito Control-  
Fish & Wildlife Mgmt.  
Coordination**

Kirk Robbins

**Workshop**

Sammie L. Dickson

---

## Monday Morning

October 5, 2015

### Plenary Session

Zion/Bryce

Moderator: **Bryan Stephens, UMAA President**

- 8:30 Call to Order & Announcements, **Bryan Stephens**, UMAA President and Manager, Summit Mosquito Abatement District, Wanship, UT
- 8:40 Welcome to the 68<sup>th</sup> Annual Meeting in Provo, Utah, **Ralph L. Clegg, EHS, MPA**, Interim Executive Director, Utah County Health Department
- 8:50 Welcome to the Provo Marriott Conference Center: **John Garfield**
- 8:55 Introduction of Keynote Speaker: **Bill Cox**, UMAA President-Elect, and Manager, Rich County Mosquito Abatement
- 9:00 **Keynote Address:** West Nile Virus in Western North America - An update on Recent Research, **William K. Reisen PhD**, Professor Emeritus, Center for Vectorborne Diseases, School of Veterinary Medicine, University of California Davis, CA
- 10:00 **Break**  
Door Prize Drawing @ 10:20
- 10:30 USDA Mosquito Control Product Research and an Update on the AMCA, **Kenneth J. Linthicum, PhD, BCE**, Center for Medical, Agricultural & Veterinary Entomology, Gainesville, Florida
- 11:00 Thinking Outside the Tube: ADAM and Other Strategies to Combat *Aedes aegypti*, **Steve Mulligan** and Jodi Holeman, Consolidated Mosquito Abatement District, Selma, CA
- 11:15 Nominations: **Eldon Rowley**, Manager, West Millard Mosquito Abatement District, Delta, UT
- 11:20 Efficacy of Fungi for Biocontrol of Adult Mosquitoes in Underground Storm Drainage Systems in the Coachella Valley, **Gregory S. White, PhD**, Vector Ecologist, Coachella Valley Mosquito and Vector Control District, Indio, CA
- 11:35 Aerial Larvicide Bucket Test, **Jon Van Tassell**, Joel Shegrud, Gary Hatch, Mosquito Abatement District - Davis

- 11:50 Prevalence of Water In Catch Basins in Davis County, **Jon Van Tassell**, Joel Shegrud, Gary Hatch, Mosquito Abatement District - Davis
- 12:05 **Lunch**  
Arches/Canyon

**Monday Afternoon**  
October 5, 2015  
**General Session**  
Zion/Bryce

Moderator: **Bill Cox**, UMAA President-Elect

- 1:30 DeltaGard – Season One, What We've Learned, **Gordon Morrison**, Bayer Environmental Science, Research Triangle Park, NC
- 1:45 Update of Utah County Mosquito App for Monitoring Fieldwork, New Dashboard and Trap Features, **David Henrie** and Darin Sleight, Utah County GIS Programmers
- 2:00 An Examination of Mosquito Activity in Weber County, Utah Using a Collection Bottle Rotator Trap, **Ryan Arkoudas**, Manager, Weber MAD
- 2:15 Precision Vision UAV Capabilities and FAA Status & Outlook, **William "Bill" Reynolds**, Leading Edge Associates
- 2:30 Delta, Delta, Delta, May We Help ya', Help ya', Help ya'!: Goings on at the Delta County Mosquito Control District No. 1, **Steve DeFeyter**, Manager, Delta County Mosquito Control Program
- 2:45 Organic vs Green Mosquito Control Methods, **Blaine Oakeson**, Regional Sales Manager, Central Life Sciences
- 3:00 **Break**  
Door Prize Drawing @ 3:20
- 3:30 Utah County MAD, Past to Present, **Robert C. Mower**, Manager, Utah County Health Department, Mosquito Abatement Division
- 3:45 Jumping in With Both Feet: Weber MAD's Indoor Fish Tanks, **Ryan Arkoudas**, Manager, Weber Mosquito Abatement District, Ogden, Utah
- 4:00 The Effect of Thermal Inversions on Droplet Penetration and Characteristics of Dibrom Adulticide in a Desert Environment, **Ary Faraji PhD**, Assistant Manager and Biologist, Salt Lake City MAD

- 4:15 Droplet Density and Size Reduction Over Time,  
**Nelson Long**, Intern, Salt Lake City MAD
- 4:30 Rebuilding a Program from the Perspective of a New  
Manager, **Mark Stewart**, Manager, Sevier County  
Mosquito Abatement Department
- 4:45 Efforts to Enhance Efficiency and Efficacy of Control  
of Larval Mosquitoes in Storm Water Catch Basins,  
**Eric Gardner**, Brian Hougaard South Salt Lake  
Valley Mosquito Abatement District
- 5:00 **Adjourn**

**Monday Evening  
AWARDS BANQUET**

**7:00 PM**

**Arches/Canyon**



## Tuesday Morning

October 6, 2015  
General Session  
Zion

Moderator: **Richard Rigby**, UMAA Vice President

- 8:30 New and Resurgent Mosquito-borne Arbovirus Problems in Western North America, **William K. Reisen PhD**, Professor Emeritus, Center for Vectorborne Diseases, School of Veterinary Medicine, University of California Davis, CA
- 9:15 Identification of Mosquito Blood Meals Using High-Resolution Melt PCR, **Brad York, Tyler Floyd**, Darinka Zapata, Kathryn Allred, Kaitlyn Bunker, Curtis Graham, Brett Smith, Janice Sugiyama, Ph.D., Biotechnology Research, Utah Valley University
- 9:35 Pollinators Update, **Gordon Morrison**, Bayer Environmental Science, Research Triangle Park, NC
- 9:50 Merus 2.0 Field Trial at West Millard MAD, **Jake Hartle**, Clarke and Eldon Rowley, Manager West Millard MAD
- 10:05 **Break**  
Door Prize Drawing @ 10:20
- 10:30 Technology Update – New Features, Enhancements and Services for Mosquito Control, **Ryan Pierson**, Electronic Data Solutions
- 10:45 The Ayatolla of Mosquito Controlla: Current State of Mosquito Research and Control in Iran, **Ary Faraji**, Assistant Manager, Salt Lake City MAD
- 11:00 West Nile Virus and Plague Update: Utah and the United States, 2015, **JoDee Summers Baker, MPH** Epidemiologist, Bureau of Epidemiology, Utah Department of Health
- 11:15 FourStar CRG: Getting the Hard-To-Reach Areas, **Scott Bradshaw**, Manager Tooele Valley Mosquito Abatement District
- 11:30 Responding to a Chemophobic World, **T.J. Shelby**, Industry Specialist, Univar Environmental Sciences
- 11:45 **Vendor Introductions & Presentations**, Each vendor will have up to two minutes to introduce themselves, their company and products
- 12:00 **Adjourn**

## **Tuesday Morning**

October 6, 2015

### **Trustee's Session**

**Bryce**

Moderator: **Bryan Stephens**, UMAA President

8:30 Trustee Training—Part 1: Governance (Roundtable Discussion)

**LeGrand Bitter**, Executive Director, Utah Association of Special Districts

**Sammie Dickson, PhD**, Manager, Salt Lake City Mosquito Abatement District

**Ryan Roberts**, Supervisor, Local Government Division, State Auditor's Office

**10:05**

#### **Break**

Door Prize Drawing @ 10:20 in Zion Meeting Room

10:30

Trustee Training—Part 2: Financial (Roundtable Discussion)

**LeGrand Bitter**, Executive Director, Utah Association of Special Districts

**Sammie Dickson, PhD**, Manager, Salt Lake City Mosquito Abatement District

**Ryan Roberts**, Supervisor, Local Government Division, State Auditor's Office

12:00

#### **Adjourn**

12:15

**UMAA Annual Business Meeting**,  
Birch

## 2015 UMAA SUSTAINING MEMBERS

### **ADAPCO INC.**

Gale Jirik  
1851 County Road 671  
Rye, CO 81069  
866-845-2550 O  
505-366-7987 M  
[gjirik@myadapco.com](mailto:gjirik@myadapco.com)

### **AMVAC**

Peter Connelly  
751 West Ocracoke Sq. SW  
Vero Beach, FL 32968  
(772) 563-0606  
[peterc@amvac-chemical.com](mailto:peterc@amvac-chemical.com)

### **BAYER**

Gordon Morrison  
2 T.W. Alexander Drive  
Research Triangle Park, NC 27516  
(919) 549-2535  
[gordon.morrison@bayer.com](mailto:gordon.morrison@bayer.com)

### **CENTRAL LIFE SCIENCES, INC.**

Blaine Oakeson  
1091 N 3500 W  
Marriott-Slaterville, UT, 84404  
(801) 389-0867 M  
[boakeson@central.com](mailto:boakeson@central.com)

### **CLARKE**

Drew Hunter  
1278 29<sup>th</sup> CT NW  
Salem, OR, 97304  
(503) 505-4197 M  
[dhunt@clarke.com](mailto:dhunt@clarke.com)

### **ELECTRONIC DATA SOLUTIONS**

Ryan Pierson  
PO Box 31  
Jerome, ID, 83338  
(208) 324-8006  
(208) 358-1142 M  
[elecdata@elecdata.com](mailto:elecdata@elecdata.com)

**GIL MANUFACTURING, INC.**

Ted Gilreath  
P.O. Box 242725  
Montgomery, AL, 36117  
(334) 284-8111  
[gilmosquito@charter.net](mailto:gilmosquito@charter.net)

**LEADING EDGE ASSOCIATES, INC.**

Bill Reynolds  
702 Tulip Tree Ct  
Fletcher, NC 28732  
(828) 246-2111  
[mreynolds@leateam.com](mailto:mreynolds@leateam.com)

**UNIVAR ENVIRONMENTAL SCIENCES**

TJ Shelby  
650 W. 800 S.  
Salt Lake City, UT 84104-1026  
(801) 884-8579 M  
[tj.shelby@univarusa.com](mailto:tj.shelby@univarusa.com)

**UTAH LOCAL GOVERNMENTS TRUST**

Ryan Hatch  
55 South Hwy 89  
North Salt Lake, UT 84054-2504  
(801) 936-6400  
(800) 748-4440  
[ryan@utahtrust.gov](mailto:ryan@utahtrust.gov)

**VALENT BIOSCIENCES**

Stephanie Whitman  
1450 North 45<sup>th</sup> Street  
Laramie, WY 82072  
(307) 721-4335  
(307) 399-1732 M  
[Stephanie.Whitman@valent.com](mailto:Stephanie.Whitman@valent.com)

**VECTOR DISEASE CONTROL, LLC (VDCI)**

Malcom Williams  
1320 Brookwood Dr. Suite H  
Little Rock AR 72202  
(800) 413-4445  
[mwilliams@vdc.net](mailto:mwilliams@vdc.net)

**SUSTAINING MEMBERS  
SPONSORING  
SPECIAL FUNCTIONS**

**PRESIDENT'S RECEPTION**

VALENT BIOSCIENCES

**LUNCHEON**

CLARKE

UTAH LOCAL GOVERNMENTS TRUST

CENTRAL LIFE SCIENCES, INC.

BAYER ENVIRONMENTAL SCIENCE

AMVAC

**BREAKS**

ADAPCO

UNIVAR ENVIRONMENTAL SCIENCES

VECTOR DISEASE CONTROL  
INTERNATIONAL

**PRINTING OF PROGRAM & AWARDS**

AMVAC

**DOOR PRIZES**

To Be Announced When Prizes Are Given Out  
**NOTES**

## NOTES

## Past Presidents

1948	Don M. Rees	1982	Elmer Kingsford
1949	Don M. Rees	1983	Robert Brand
1950	Don M. Rees	1984	Steven Romney
1951	Don M. Rees	1985	James Nielsen
1952	O. W. Young	1986	Lewis Marrott
1953	Theodore Schoenfeld	1987	Kenneth Minson
1954	O.C. Finley	1988	Sammie Dickson
1955	Howard Widdison	1989	Kay Weight
1956	Delore Nichols	1990	Lewis Nielsen
1957	Jay E. Graham	1991	Doug Brown
1958	Lewis Nielsen	1992	John Jausi
1959	Lewis Fronk	1993	Keith Wagstaff
1960	Karl Josephson	1994	Evan Lusty
1961	Morris Swapp	1995	Bruce Bennett
1962	Glen C. Collett	1996	Steven Romney
1963	George F. Knowlton	1997	Gary Hatch
1964	Henry Beckstead	1998	Dennis Kiyoguchi
1965	D. Elden Beck	1999	Gordon Wheeler
1966	Lewis Fronk	2000	Randel Sessions
1967	Larry Nielsen	2001	Robert Brand
1968	Kendall Sedgewick	2002	Brian Hougaard
1969	Karl Josephson	2003	Val Bowlden
1970	William Wright	2004	Eldon Rowley
1971	Reed Roberts	2005	Kirk Robbins
1972	Lee Kay	2006	Ryan Arkoudas
1973	Wilford Egbert	2007	Mike Oldham
1974	Carl D. Clark	2008	Sammie Dickson
1975	Don M. Rees	2009	Robert Mower
1976	Earl Jenne	2010	John Johnson
1977	Larry Nielsen	2011	Ryan Lusty
1978	Evan Lusty	2012	Tyson Packer
1979	Keith Wagstaff	2013	Mario Boisvert
1980	Wanless Southwick	2014	Eldon Rowley
1981	Dennis Hunter		



