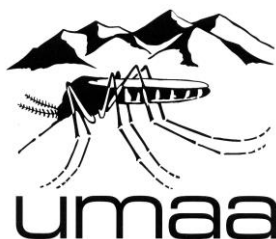


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71<sup>st</sup>  
ANNUAL CONFERENCE  
OF THE  
UTAH MOSQUITO ABATEMENT  
ASSOCIATION

***“Apply It Right”***



Ogden Eccles Conference Center  
2415 Washington Blvd.  
Ogden, UT 84401

October 28-30, 2018

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# PROGRAM SUMMARY

## Sunday, October 28, 2018

- 3:00 – 6:30 pm      Registration 1<sup>st</sup> Floor
- 5:00 – 7:30 pm      Exhibitor Setup Foyer, 2<sup>nd</sup> Floor
- 6:30 pm              UMAA Board Meeting  
                            Administrative Board Rm – 2<sup>nd</sup> Floor
- 8:00 pm              President's Reception  
                            Rooms 101-103 & Lounge

## Monday, October 29, 2018

- 7:30 am              Registration – 2<sup>nd</sup> Floor
- 8:00 am              Plenary Session  
                            Grand Ballroom C & D, 2<sup>nd</sup> Floor
- 10:00 am             Break
- 10:30 am             General Session  
                            Grand Ballroom C & D, 2<sup>nd</sup> Floor
- Noon                      Lunch – Junior Ballroom 1<sup>st</sup> Floor
- 1:30 pm              General Session – Grand Ballroom B  
                            2<sup>nd</sup> Floor
- 1:30 pm              Trustees Session – Grand Ballroom E  
                            2<sup>nd</sup> Floor
- 3:00 pm              Break
- 3:30 pm              General Session – Grand Ballroom B  
                            2<sup>nd</sup> Floor
- 3:30 pm              Trustees Session – Grand Ballroom E  
                            2<sup>nd</sup> Floor
- 5:00 pm              Adjourn
- 5:30 pm              Banquet – Ballroom A, 2<sup>nd</sup> Floor

## Tuesday, October 30, 2018

- 8:15 am              General Session  
                            Grand Ballroom C & D, 2<sup>nd</sup> Floor
- 10:00 am             Break
- 10:30 am             General Session  
                            Grand Ballroom C & D, 2<sup>nd</sup> Floor
- 11:45 am             Adjourn
- 12:15 pm             UMAA Annual Business Meeting  
                            Administrative Board Rm – 2<sup>nd</sup> Floor

**All Breaks Will Be Held in The Vendor Exhibit Area  
East Foyer – 2<sup>nd</sup> Floor**

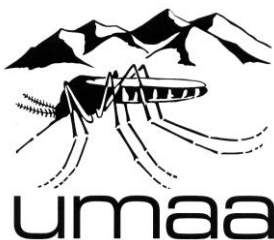
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WELCOME TO THE

71<sup>st</sup>

ANNUAL CONFERENCE

OF THE



UTAH MOSQUITO ABATEMENT  
ASSOCIATION

***“Apply It Right”***

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CONFERENCE HOST

Weber Mosquito Abatement District  
Ryan Arkoudas, Manager  
MEETING LOCATION

Ogden Eccles Conference Center  
2415 Washington Blvd.  
Ogden, UT 84401

October 28-30, 2018

## UMAA OFFICERS AND BOARD OF DIRECTORS

<b>President</b> Scott Bradshaw	Rick Chappoose Jr. William Cox Rex Davis
<b>President-Elect</b> Sean Amodt	Ary Faraji Rex Griffiths Gary Hatch
<b>Vice-President</b> Dan Miller	Brian Hougarrrd Ryan Lusty Dan Miller
<b>Secretary/Treasurer</b> Eldon Rowley	Elizabeth Nance Branton Nielson Gary Nielson
<b>Past President</b> Richard Rigby	Brian Raymond Richard Rigby Kirk Robbins
<b>Executive Director</b> Randel Sessions	Chris Rowley Eldon Rowley Randel Sessions
<b>Directors</b> Sean Amodt Ryan Arkoudas Scott Bradshaw	Bryan Stephens Kay Weight Cory Worwood

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## UMAA COMMITTEE CHAIRMEN

<b>Auditing</b> Dan Miller	<b>Operational</b> Brian Hougaard
<b>Awards</b> Richard Rigby	<b>Pesticides</b> Ryan Arkoudas
<b>Computer/Data Processing</b> Andrew Dewsnap	<b>Policy, Finance &amp; Bylaws</b> Dan Miller
<b>Encephalitis Surveillance</b> Gary Hatch	<b>Program</b> Sean Amodt
<b>Environmental Impact</b> Kirk Robbins	<b>Public Education</b> Gary Hatch
<b>Legislative &amp; Resolutions</b> Bill Cox	<b>Mosquito Control- Fish &amp; Wildlife Mgmt. Coordination</b> Kirk Robbins
<b>Local Arrangements</b> Ryan Arkoudas	<b>Workshop</b> Ryan Arkoudas
<b>Nominating</b> Richard Rigby	

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**Monday Morning**  
October 29, 2018  
**Plenary Session**  
Grand Ballroom C & D, 2<sup>nd</sup> Floor

Moderator: **Scott Bradshaw, UMAA President**

- 8:00 Call to Order & Announcements, **Scott Bradshaw**, UMAA President, & Manager
- 8:15 Welcome to the 71st Annual Meeting in Ogden, UT, **Mike Caldwell**, Mayor Ogden City
- 8:20 Introduction of Keynote Speaker, **Scott Bradshaw**, President UMAA
- 8:25 **Keynote Address:** The Consequences of Environmental Activism Against Public Health Insecticides, **Richard Tren**, Board Member Competitive Enterprise Institute
- 9:15 AMCA Update, **William Walton**, AMCA President
- 9:25 **Vendor Introductions & Presentations**, each vendor will have up to 3 minutes to introduce their company and products
- 10:00 **Break**  
Door Prize Drawing @ 10:20am
- 10:30 2018 Utah Arboviral Disease Summary, **Dallin Peterson**, Vectorborne/Zoonotic Disease Epidemiologist, Utah Dept of Health
- 10:50 Four Corners States Biomonitoring Consortium: Summary Results for Pyrethroid Containing Insecticides, **Sam Lefevre**, Environmental Health Director, Utah Dept of Health
- 11:10 Utah Division of Water Monitoring Programs, **Benjamin Brown**, Water Monitoring Manager, Utah Dept Of Environmental Quality
- 11:30 *Aedes aegypti* Update 2018: Southern Nevada Health District, **Drew Hunter**, Control Consultant Clarke: Aquatic & Mosquito Control Services & Products
- 11:40 Keeping Tabs on Mosquitos in Utah: UtahSurv Status Update, **Greg White**, Asst. Director, Salt Lake City MAD
- 11:55 **Lunch** – Junior Ballroom, 1<sup>st</sup> Floor  
Guest Speaker: **James Garrett**, President/Owner, Brain in Mind

# Monday Afternoon

October 29, 2018

**General Session**

**Grand Ballroom B, 2<sup>nd</sup> Floor**

Moderator: **Sean Amodt**, UMAA President-Elect

- 1:30 Improving Disease Vector Surveillance by Involving the Community, **Lee Cohnstaedt**, Research Entomologist, Agricultural Research Service, USDA
- 2:00 The Circulation of WNV and SLE Virus in The Southwestern US, **Crystal Hepp**, Assistant Professor, Northern Arizona University
- 2:15 What Makes Web GIS So Compelling, **Linda Glover**, GIS Sales Manager, Frontier Precision, Inc.
- 2:30 Molecular Diagnostics Vector Program, **Seth Egan**, Management, Co-Diagnostics, Inc.
- 2:45 Uses of The Buffalo Turbine for Mosquito Control, **Andrew Rivera**, West Coast Field Biologist, Clarke
- 3:00 **Break**  
Door Prize Drawing @ 3:20pm
- 3:30 "Don't Mind Us If We Drone On: Aerial Applications in 2018", **Bill Reynolds**, Owner, Leading Edge, Inc.
- 3:45 Surveillance Made Simple: CalSurv Data Integration and Using the New MapVision iMobile App, **Piper Kimball**, Vector Biologist, Leading Edge Inc.
- 4:00 Recent Advances in WALST<sup>™</sup> Application Technology for Control of DENV, ZIKV, and WNV Vectors, Peter DeChant, **Stephanie Whitman**, Senior Technical Sales Specialist, Valent BioSciences LLC
- 4:10 Molecular Testing of Mosquitoes and Dead Birds For WNV, **Justin Liao**, Staff Application Specialist, Thermo Fisher/ABI
- 4:25 Using GIS For Mosquito Management in Web Applications, **Jarom Hlebasko**, Christopher Daughton, Kelly Gillins, GIS Team, Sunrise Engineering
- 4:45 Summit Bti Trial Results, **David Herter**, Manger, Bannock County, Idaho
- 5:00 **Adjourn**

## **Monday Afternoon**

October 29, 2018

### **Trustee's Session**

**Grand Ballroom E, 2<sup>nd</sup> Floor**

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

- 1:30      Continual Improvement in Risk Management,  
**Doug Folsom**, Loss Prevention Manager, Utah  
Local Governments Trust
- 2:15      Local District Board Member Training—Part 1
- LeGrand Bitter**, Executive Director, Utah  
Association of Special Districts
- Calvin Bergmann**, Analyst, Local Government  
Division, State Auditor's Office
- 3:00      **Break**
- 3:30      Trustee Training—Part 2
- LeGrand Bitter**, Executive Director, Utah  
Association of Special Districts
- Calvin Bergmann**, Analyst, Local Government  
Division, State Auditor's Office
- 5:00      **Adjourn**

## **Monday Evening**

### **AWARDS BANQUET**

**Grand Ballroom A, 2<sup>nd</sup> Floor**

**5:30 PM**

**Guest Speaker: Cecil E. Tuley, WNV Survivor  
Utah County**

**Tuesday Morning**  
October 30, 2018  
**General Session**  
**Grand Ballroom C & D, 2<sup>nd</sup> Floor**

Moderator: **Dan Miller**, UMAA Vice President

- 8:05 Morning Introductions and Announcements, **Dan Miller**, Manager, Utah County Mosquito Abatement Department
- 8:10 Mosquito and Tick Research at The Pacific Southwest Center of Excellence in Vector-borne Diseases, **William Walton**, President Department of Entomology, University of California
- 8:40 Mosquito Spot Prioritization, **Dan McBride**, South Salt Lake Valley, MAD
- 8:50 The Reality of *Culex tarsalis* Control in Ogden Bay WMA, **Ryan Arkoudas**, Manager, Weber MAD
- 9:00 Report on BG Sentinel Traps for *Aedes aegypti*, *Aedes albopictus*, and Other Species, **Maddy Telford**, seasonal intern, Utah County MAD
- 9:15 In-field Botanical Study on Mosquito Repellent Properties of Specific Aromatic Plants, **Elizabeth Hart**, Seasonal Intern, Utah County MAD
- 9:30 Using Q-PCR to ID mosquito species, **Dan Miller**, Manager, Utah County MAD
- 9:45 “Blow ‘em Out of the Water: A Cool New Tool for Larval Control”, **Sean Amodt**, Manager, Dallin Gunter, Field Technician, Southwest MAD
- 10:00 **Break**  
Door Prize Drawing @ 10:20
- 10:30 Trashy Mosquito Surveillance, **Nadja Mayerle**, Biologist, Salt Lake City MAD
- 10:45 Modeling Dengue Outbreaks: Analyzing the Effects of Wolbachia Trans-infection, **Vinohd Chellamuthu**, Asst. Professor of Mathematics, Dixie State University
- 11:00 First Year In-House RT-PCR Testing, **Devin Lang**, Gary Hatch, MAD-Davis
- 11:15 First Year UAV Use and Granular Larvicide, **Joel Shegrud**, Gary Hatch, Davis MAD



- 11:30 2018 Utah Duplex-G Field Trials, **Scott Bradshaw**, Manager, Tooele Valley MAD
- 11:45 **Adjourn**
- 12:15 **UMAA Annual Business Meeting** –  
Administrative Board Room, 2<sup>nd</sup> Floor

## **2018 UMAA SUSTAINING MEMBERS**

### **ADAPCO INC.**

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

### **AMVAC**

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Vancouver, WA 98686  
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### **CENTRAL LIFE SCIENCES, INC.**

Blaine Oakeson  
1091 N 3500 W  
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### **CLARKE**

Drew Hunter  
1278 29<sup>th</sup> CT NW  
Salem, OR, 97304  
(800) 323-5727  
(503) 505-4197  
[dhunt@clarke.com](mailto:dhunt@clarke.com)

### **CO-DIAGNOSTICS, INC.**

Seth Egan  
2401 Foothill Blvd, Suite D  
Salt Lake City, UT 84093  
(801) 635-9436  
[s.egan@codiagnostics.com](mailto:s.egan@codiagnostics.com)

### **DESIGN WEST ARCHITECTS**

Kimberly Johnson  
795 North 400 West  
Salt Lake City, UT, 84103  
(801) 539-8221  
[kimberly@designwestarchitects.com](mailto:kimberly@designwestarchitects.com)

### **FRONTIER PRECISION, INC.**

Linda Glover  
154 1<sup>st</sup> Avenue W.  
Jerome, ID 83338  
(208) 324-8006  
[linda@frontierprecision.com](mailto:linda@frontierprecision.com)  
[chad@frontierprecision.com](mailto:chad@frontierprecision.com)

**LEADING EDGE ASSOCIATES, INC.**

Bill Reynolds  
702 Tulip Tree Court  
Fletcher, NC 28732  
(407) 468-0008  
[breynolds@leateam.com](mailto:breynolds@leateam.com)  
[piper@leateam.com](mailto:piper@leateam.com)

**SUNRISE ENGINEERING, INC.**

Jarom Hlebasko  
730 S Cove Dr.  
Cedar City, Utah 84720  
435-867-8834  
[jhlebasco@sunrise-eng.com](mailto:jhlebasco@sunrise-eng.com)

**TARGET SPECIALTY PRODUCTS**

Robert Snyder  
Freeport Center H Street, Building J10  
Clearfield, UT 54016  
(602) 284-4003  
[robert.snyder@target-specialty.com](mailto:robert.snyder@target-specialty.com)

**UNIVAR ENVIRONMENTAL SCIENCES**

Mark Nelson  
4530 South 300 West  
Murray, UT 84107  
(801) 243-9350  
[mark.nelson@univar.com](mailto:mark.nelson@univar.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  
[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  
(501) 280-0220  
[mwilliams@vdcinet](mailto:mwilliams@vdcinet)  
[rallen@vdcinet](mailto:rallen@vdcinet)  
[pdawson@vdcinet](mailto:pdawson@vdcinet)

***SUSTAINING MEMBERS  
SPONSORING  
SPECIAL FUNCTIONS***

***PRESIDENT'S RECEPTION***

VALENT BIOSCIENCES

ADAPCO

***LUNCHEON***

CENTRAL LIFE SCIENCES, INC.

CLARKE

UTAH LOCAL GOVERNMENTS TRUST

***BREAKS***

UNIVAR ENVIRONMENTAL SCIENCES

VECTOR DISEASE CONTROL  
INTERNATIONAL (VDCI)

***PRINTING OF PROGRAM & AWARDS***

AMVAC

***DOOR PRIZES***

UMAA

## NOTES



## Past Presidents

1948	Don M. Rees	1985	James Nielsen
1949	Don M. Rees	1986	Lewis Marrott
1950	Don M. Rees	1987	Kenneth Minson
1951	Don M. Rees	1988	Sammie Dickson
1952	O. W. Young	1989	Kay Weight
1953	Theodore Schoenfeld	1990	Lewis Nielsen
1954	O.C. Finley	1991	Doug Brown
1955	Howard Widdison	1992	John Jaussi
1956	Delore Nichols	1993	Keith Wagstaff
1957	Jay E. Graham	1994	Evan Lusty
1958	Lewis Nielsen	1995	Bruce Bennett
1959	Lewis Fronk	1996	Steven Romney
1960	Karl Josephson	1997	Gary Hatch
1961	Morris Swapp	1998	Dennis Kiyoguchi
1962	Glen C. Collett	1999	Gordon Wheeler
1963	George F. Knowlton	2000	Randel Sessions
1964	Henry Beckstead	2001	Robert Brand
1965	D. Elden Beck	2002	Brian Hougaard
1966	Lewis Fronk	2003	Val Bowlden
1967	Larry Nielsen	2004	Eldon Rowley
1968	Kendall Sedgewick	2005	Kirk Robbins
1969	Karl Josephson	2006	Ryan Arkoudas
1970	William Wright	2007	Mike Oldham
1971	Reed Roberts	2008	Sammie Dickson
1972	Lee Kay	2009	Robert Mower
1973	Wilford Egbert	2010	John Johnson
1974	Carl D. Clark	2011	Ryan Lusty
1975	Don M. Rees	2012	Tyson Packer
1976	Earl Jenne	2013	Mario Boisvert
1977	Larry Nielsen	2014	Eldon Rowley
1978	Evan Lusty	2015	Bryan Stephens
1979	Keith Wagstaff	2016	William Cox
1980	Wanless Southwick	2017	Richard Rigby
1981	Dennis Hunter		
1982	Elmer Kingsford		
1983	Robert Brand		
1984	Steven Romney		