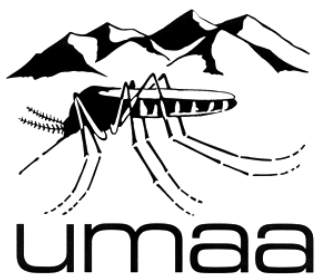


---

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



Red Cliffs Lodge  
Mile 14 Highway 128  
Moab, Utah 84532

October 28 - 30, 2012

---

# PROGRAM SUMMARY

## Sunday, October 28, 2012

- |                |  |
|----------------|--|
| 3:00 – 6:30 pm | Registration – Foyer   |
| 3:00 – 7:00 pm | Exhibitor Setup<br>Foyer of Colorado Room, hallway &<br>lobby area |
| 6:30 pm        | UMAA Board Meeting<br>Board Room (downstairs)                      |
| 8:00 pm        | President's Reception<br>Colorado Room                             |

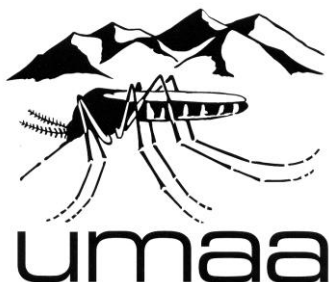
## Monday, October 29, 2012

- |          |                                    |
|----------|------------------------------------|
| 7:30 am  | Registration – Foyer               |
| 8:30 am  | Plenary Session<br>Colorado Room   |
| 10:00 am | Break                              |
| 10:20 am | Door Prize Drawing                 |
| 10:30 am | General Session<br>Colorado Room   |
| Noon     | Lunch – Rio Grande Room (Winery)   |
| 1:30 pm  | General Session – Colorado Room    |
| 1:30 pm  | Trustees Session – John Wayne Room |
| 3:00 pm  | Break                              |
| 3:30 pm  | General Session – Colorado Room    |
| 3:30 pm  | Trustees Session – John Wayne Room |
| 5:00 pm  | Adjourn                            |
| 7:00 pm  | Banquet – Rio Grande Room (Winery) |

## Tuesday, October 30, 2012

- |          |                                  |
|----------|----------------------------------|
| 8:30 am  | General Session<br>Colorado Room |
| 9:50 am  | Break                            |
| 10:10 am | Door Prize Drawing               |
| 10:20 am | General Session<br>Colorado Room |
| 11:30 pm | Adjourn                          |
| Noon     | UMAA Annual Business Meeting     |

WELCOME TO THE  
**65<sup>th</sup>**  
ANNUAL CONFERENCE  
OF THE



UTAH MOSQUITO ABATEMENT  
ASSOCIATION

---

CONFERENCE HOST

Moab Mosquito Abatement District  
Robert A. Phillips, Manager

MEETING LOCATION

Red Cliffs Lodge  
Mile 14 Highway 128  
Moab, Utah 84532  
October 28 - 30, 2012

**UMAA OFFICERS AND  
BOARD OF DIRECTORS**

**President**

Tyson Packer

**President-Elect**

Mario Boisvert

**Vice-President**

Eldon Rowley

**Secretary/Treasurer**

Eldon Rowley

**Past President**

Ryan Lusty

**Executive Director**

Randel Sessions

**Directors**

Joe Archer

Bruce M. Bennett

Mario Boisvert

Val Bowlden

Robert Brand

Sammie Dickson

Gary Hatch

John Johnson

Mike Johnson

Ryan Lusty

Robert Mower

James Nielsen

Gary Nielson

Robert Phillips

Richard Rigby

Kirk Robbins

Eldon Rowley

Mike Seely

Randel Sessions

Brian Stevens

Terrie Wierenga

Kay Weight

---

**UMAA COMMITTEE CHAIRMEN**

**Auditing**

Robert Mower

**Awards**

Ryan Lusty

**Computer/Data**

**Processing**

Gary Hatch

**Encephalitis Surveillance**

Gary Hatch

**Environmental Impact**

James Nielsen

**Legislative &**

**Resolutions**

Sammie Dickson

**Local Arrangements**

Bob Phillips

**Newsletter**

Randel Sessions

**Nominating**

Ryan Lusty

**Operational**

Brian Hougaard

**Pesticides**

Robert Brand

**Policy, Finance & Bylaws**

Eldon Rowley

**Program**

Mario Boisvert

**Publications**

Sammie Dickson

**Public Education**

Gary Hatch

Kirk Robbins

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

**Workshop**  
Lewis T. Nielsen

---

## **Monday Morning**

October 29, 2012

**Plenary Session**

**Colorado Room**

Moderator: **Tyson Packer, UMAA President**

- 8:30 Call to Order & Announcements, **Tyson Packer**, UMAA President, & Asst. Manager, Box Elder Mosquito Abatement District, Brigham City, UT
- 8:40 Welcome to the 65th Annual Meeting in Moab, UT, **Zane Taylor**, Moab Times, Moab, UT
- 8:50 Welcome to Red Cliffs Lodge, **Sandy Bastian**, Red Cliffs Lodge, Moab, UT
- 8:55 Introduction of Keynote Speaker, **Mario Boisvert, PhD**, UMAA President-Elect and Manager, Southwest Mosquito Abatement & Control District, Washington City, UT
- 9:00 **Keynote Address:** Contrasting Epidemiology of West Nile virus Abroad and at Home, **Bill Reisen, PhD**, Center for Vectorborne Diseases, UC Davis, CA
- 10:00 **Break**  
Door Prize Drawing @ 10:20
- 10:30 AMCA Update, **Tom Wilmot, PhD**, AMCA President and Manager of Midland County Mosquito Control, Sanford, MI
- 10:50 The War Between the States: Public Health Perspectives, **Joe Conlon**, Technical Advisor, AMCA
- 11:40 Pesticides, Mosquitoes: Dealing With the Media and the Public, **Clark Burgess**, Utah Department of Agriculture, Salt Lake City, UT
- 11:50 **Nominations**
- Noon **Lunch**  
**Rio Grande Room (Winery)**

## Monday Afternoon

October 29, 2012

**General Session**

**Colorado Room**

Moderator: **Mario Boisvert**, UMAA President-Elect

- 1:30 NPDES Update, **Mark Schmitz**, Utah Department of Environmental Quality, Salt Lake City, UT
- 1:50 Comparative Roles of *Culex* Species in West Nile virus Transmission, **Bill Reisen, PhD**, Center for Vectorborne Diseases, UC Davis, CA
- 2:10 Mechanisms of West Nile virus Persistence, **Sarah Wheeler, PhD**, Center for Vectorborne Diseases, UC Davis, CA
- 2:30 Possible Extirpation of a Mosquito from Midland County, Michigan, **Tom Wilmot, PhD**, AMCA President and Manager of Midland County Mosquito Control, Sanford, MI
- 2:45 Can *Ae. albopictus* Displace *Ae. sierrensis*? **Banugopan Kesavaraju, PhD**, Sammie Dickson, PhD and Paul Leisnham, Salt Lake Mosquito Abatement District, Salt Lake City, UT
- 3:00 **Break**
- 3:30 How Much CO<sub>2</sub> is Enough CO<sub>2</sub>? **Eldon Rowley** and Shannon Moody, West Millard Mosquito Abatement District, Delta, UT
- 3:45 RT-PCR Resting at Southwest MAD, **Sean Amodt**, Lab Supervisor, Southwest Mosquito Abatement & Control District, Washington City, UT
- 4:00 West Nile.....Texas style, Fran Krenick, \*Caleb Stitely and **Ben Goudie**, Clarke, Roselle, IL and \*Dynamic Aviation, Bridgewater, VA
- 4:15 Some Noteworthy Blood-Sucking Insects of the Moab District, **Bob Phillips**, Manager/entomologist, Moab Mosquito Abatement District, Moab, UT
- 4:35 **Vendor Introductions & Presentations**, Each vendor will have up to 2 minutes to introduce themselves, their company and products.
- 5:00 **Adjourn**

## **Monday Afternoon**

October 29, 2012

**Trustee's Session**

**John Wayne Room**

Moderator: **Ryan Lusty**, UMAA Past President

1:30 Fair Labor Standards Act, **Brian S. Platt**, Utah  
Local Governments Trust, North Salt Lake, UT

2:00 Trustee Training – Part 1 (Audience  
Participation Appreciated)

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

Districts

**Sammie Dickson, PhD** – Manager, Salt  
Lake City MAD

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

**Richard Rigby** – Field Operations  
Manager, Cache MAD

3:00 **Break**

3:30 Trustee Training – Part 2 (Audience  
Participation Appreciated)

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

Districts

**Sammie Dickson, PhD** – Manager, Salt  
Lake City MAD

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

**Richard Rigby** – Field Operations  
Manager, Cache MAD

5:00 **Adjourn**

**Monday Evening**

**BANQUET**



**Rio Grande Room at the Winery  
Door Prizes**

**7:00 PM**

**Tuesday Morning**

October 30, 2012

**General Session**

**Colorado Room**

Moderator: **Eldon Rowley**, UMAA Vice President

- 8:30 Application Methods and Efficacy of CocoBear™ Mosquito Larvicide Oil, Griffith Lizarraga, Jacob Hartle, Derek Drews and **Ben Goudie**, Clarke, Roselle, IL
- 8:45 CocoBear™ Larvicide Oil Trial, **Gary Hatch** and Paul Gines, Mosquito Abatement District – Davis, Kaysville, UT
- 8:55 MetaLarv: Valent BioSciences' Newest Tool for Larval Control, **Stephanie Whitman**, Senior Public Health Products Specialist, Valent BioSciences, Libertyville, IL
- 9:10 Mosquiron: A New Controlled Release Mosquito Larvicide - Update, **Barry Tyler, PhD**, President, PestAlto Environmental Health Services Inc., Hamilton, ON, Canada
- 9:25 Duet Field Trial in Utah County, 14 June 2012, **Robert Mower**, \*Jake Hartle, Derek Drews, Utah County Mosquito Abatement, Provo, UT and \*Clarke, Roselle, IL
- 9:40 Comparison of Three Backpack Sprayers, **Gary Hatch** and Paul Gines, Mosquito Abatement District – Davis, Kaysville, UT
- 9:50 **Break**  
Door Prize Drawing @ 10:10
- 10:20 Information = Power + Protection, **Gale Jirik**, Adapco, Rye, CO
- 10:35 Prepare Your Equipment for Storage, **Blaine Oakeson**, Account Executive, Univar Environmental Sciences, Salt Lake City, UT
- 10:50 GIS Solutions for Managing Mosquito Control Operations, **Ryan Pierson**, Electronic Data Solutions, Jerome, ID
- 11:00 Advantages of Using Multiple Rotating Traps and the Time of Activity for *Aedes sierrensis*, *Ae. dorsalis*, and *Culex tarsalis*, **Banugopan**

**Kesavaraju PhD**, and Sammie Dickson, PhD, Salt Lake Mosquito Abatement District, Salt Lake City, UT

11:15 Study of Behavioral Patterns of *Culex tarsalis* and *Culex erythrothorax* in Southwest Utah: Take 2, **Mario Boisvert, PhD**, Manager, Southwest Mosquito abatement & Control District, Washington City, UT

11:30 **Adjourn**

Noon **UMAA Annual Business Meeting**, Board Room (downstairs)

## 2012 UMAA SUSTAINING MEMBERS

### **ADAPCO INC.**

Gale Jirik  
1851 CR 671  
Rye, CO 81069  
(866) 845-2550  
(505) 366-7989 Cell  
[gjirik@myadapco.com](mailto:gjirik@myadapco.com)

### **AMVAC**

Rennie Kubik  
10808 NE 27<sup>th</sup> Ct.  
Vancouver, WA 98686  
(360) 546-5954  
(360) 921-8019 cell  
[renniek@amvac.net](mailto:renniek@amvac.net)

### **CLARKE**

David Boggs  
1050 Cote Ln.  
Missoula, MT 59806  
(406) 499-2035 cell  
[dboggs@clarke.com](mailto:dboggs@clarke.com)

### **Dynamic Aviation**

Caleb Stitely  
1402 Airport Road  
PO Box 7  
Bridgewater, VA 22812  
(540) 828-6070  
[cstitely@dynamicaviation.com](mailto:cstitely@dynamicaviation.com)

### **ELECTRONIC DATA SOLUTIONS**

Ryan Pierson  
682 East 950 North  
Shelley, ID, 83274  
(208) 346-6106

(208) 358-1142 cell  
[ryan@elecdata.com](mailto:ryan@elecdata.com)

**FOUR STAR MICROBIAL PRODUCTS LLC**

David Sjogren  
19503 Fisher Lake Ln.  
Bend, OR, 97702  
(503) 913-6249  
[drsjogren@gmail.com](mailto:drsjogren@gmail.com)

**GIL MANUFACTURING, INC**

Ted Gilreath  
PO Box 242725  
Montgomery, AL 36124  
(800) 445-0180  
(334) 284-2725  
[gilmosquito@aol.com](mailto:gilmosquito@aol.com)

**PESTALTO ENVIRONMENTAL  
HEALTH SERVICES**

Dr. Barry Tyler  
501 Rennie Street  
Hamilton, Ontario  
[barry.tyler@pestalto.com](mailto:barry.tyler@pestalto.com)

**UNIVAR ENVIRONMENTAL SCIENCES**

Blaine Oakeson  
(801) 580-4227 cell  
[blaine.oakeson@univarusa.com](mailto:blaine.oakeson@univarusa.com)

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

**UTAH LOCAL GOVERNMENTS TRUST**

Steven Hansen  
55 South Hwy 89  
North Salt Lake, UT 84054-2504  
(801) 936-6400  
(800) 748-4440

**VALENT BIOSCIENCES**

Stephanie Whitman

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

**VECTOR DISEASE CONTROL, INC. (VDCI)**

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

**CENTRAL LIFE SCIENCES, INC.**

Larry Smith  
530 Emerald Lake Path  
Sugar Hill, GA, 30518  
770-614-4513  
[lsmith@central.com](mailto:lsmith@central.com)

***SUSTAINING MEMBERS  
SPONSORING  
SPECIAL FUNCTIONS***

PRESIDENT'S RECEPTION

**Valent BioSciences**



LUNCHEON

**CLARKE**

**UTAH LOCAL GOVERNMENTS TRUST**

**CENTRAL LIFE SCIENCES, INC.**



BREAKS

**ADAPCO**

**UNIVAR ENVIRONMENTAL SCIENCES**

**FOURSTAR MICROBIAL PRODUCTS**

**VECTOR DISEASE CONTROL, INC.**



PRINTING OF PROGRAM

**AMVAC**



DOOR PRIZES

To Be Announced When Prizes Are Given Out

# NOTES

## Past Presidents

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

2004	Eldon Rowley
2005	Kirk Robbins
2006	Ryan Arkoudas
2007	Mike Oldham
2008	Sammie Dickson
2009	Robert Mower
2010	John Johnson
2011	Ryan Lusty