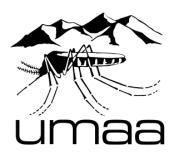
69th ANNUAL CONFERENCE

OF THE

UTAH MOSQUITO ABATEMENT ASSOCIATION



Zermatt Resort & Conference Center 784 Resort Drive Midway, UT 84049

October 2 - 4, 2016

PROGRAM SUMMARY

Sunday, October 2, 2016

3:00 pm - 6:30 pm Registration 3:00 pm - 7:00 pm **Exhibitor Setup** Bernese Event Center **UMAA Board Meeting** 6:30 pm Monte Rosa 8:00 pm President's Reception

Bernese Event Center Monday, October 3, 2016

7:00 am Registration 8:00 am Plenary Session Bernese Event Center 10:15 am Break 10:35 am Door Prize Drawing 10:45 am General Session Bernese Event Center Noon Lunch - Bernese Event Center General Session 1:30 pm Bernese Event Center 3:15 pm Break 3:35 pm Door Prize Drawing General Session 3:45 pm Bernese Event Center 5:00 pm Adjourn 7:00 pm Banquet - Bernese Event Center Tuesday, October 4, 2016

8:30 am General Session Bernese Event Center 8:30 am Trustee Session Grindelwald 10:00 am Break 10:30 am General Session Bernese Event Center 10:30 am Trustee Session

Adjourn 12:00 pm

12:15 pm **UMAA Annual Business Meeting**

Monte Rosa

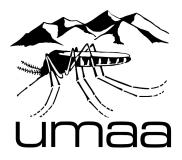
Grindelwald

WELCOME TO THE

69th

ANNUAL CONFERENCE

OF THE



UTAH MOSQUITO ABATEMENT ASSOCIATION

CONFERENCE HOST

South Salt Lake Valley Mosquito Abatement District Brian Hougaard, Manager

MEETING LOCATION

Zermatt Resort & Conference Center 784 Resort Drive Midway, UT 84049 October 4-6, 2015

UMAA OFFICERS AND BOARD OF DIRECTORS

 President
 Scott Bradshaw

 Bill Cox
 Bill Cox

 Ary Faraji
 Gary Hatch

Richard Rigby
Brian Hougarrd
Mike Johnson

Vice-President
Scott Bradshaw
Dan Miller
Gary Nielson

Secretary/Treasurer Robert Phillips
Eldon Rowley Brian Raymond
Richard Rigby

Past PresidentKirk RobbinsBryan StephensChris RowleyEldon RowleyExecutive DirectorMike Seely

Randel Sessions
Randel Sessions
Mark Stewart

Directors
Sean Amodt
Randel Sessions
Mark Stewart
Bryan Stephens
Kay Weight

Joe Archer Cory Worwood Ryan Arkoudas

UMAA COMMITTEE CHAIRMEN

Auditing Operational
Scott Bradshaw Brian Hougaard

Awards Pesticides
Bryan Stephens Ryan Arkoudas

Computer/Data Policy, Finance & Bylaws
Processing Scott Bradshaw
Gary Hatch

Encephalitis Surveillance Richard Rigby
Gary Hatch

Environmental Impact Sammie L. Dickson
Kirk Robbins

Public Education
Legislative & Gary Hatch
Resolutions

Bill Cox

Mosquito ControlFish & Wildlife Mgmt.

Local Arrangements
Brian Hougaard

Kirk Robbins

NewsletterWorkshopRandel SessionsSammie L. Dickson

Nominating Bryan Stephens

Monday Morning October 3, 2016 Plenary Session Bernese Event Center

Moderator: Bill Cox, UMAA President

8:00	Call to order & announcements, Bill Cox , UMAA President and Manager, Rich County Mosquito Abatement
8:05	Welcome to the 68 th Annual Meeting in Midway, Utah, Ryan Starks , Ex. Director, Heber Valley Chamber of Commerce, Economic Development and Tourism
8:10	Introduction of keynote speaker, Richard Rigby , UMAA President-Elect, and Manager, Cache Mosquito Abatement District
8:15	Keynote Address : "Can mosquitoes help us with our work? Autocidal methods against <i>Aedes</i> mosquitoes" Stephen L Dobson, PhD, Professor Medical and Veterinary Entomology, University of Kentucky, Lexington, KY
9:15	AMCA update, Ary Faraji PhD , West Central Regional Director, American Mosquito Control Association, Salt Lake City, Utah
9:30	Leadership and the AMCA: Stanton E Cope, PhD , President, American Mosquito Control Association
10:15	Break Door prize drawing @ 10:35
10:45	California's online vector surveillance website: CalSurv gateway: A database for mosquito surveillance and control information, Greg White , PhD, Assistant Director Salt Lake City Mosquito Abatement District
11:00	Zika surveillance and epidemiology, Dallin Peterson , Vectorborne/Zoonotic Disease Epidemiologist, Utah Department of Health
11:15	Update on infectious diseases in Utah animals, Barry Pittman, DVM MPH DACVPM, Utah State Veterinarian
11:30	Bayer research update and the latest on DeltaGard, Gordon Morrison , Bayer Environmental Science, Research Triangle Park, NC
11:45	Boots on the ground: <i>Aedes</i> control in Los Angeles County, Mark Daniel, Director of Operations, Greater Los Angeles County Vector Control District
12:00	Lunch Bernese Event Center

Monday Afternoon October 3, 2016 General Session Bernese Event Center

Moderator: Richard Rigby, UMAA President-Elect

1:30	Pollinators and pesticides, what's the latest, Gordon Morrison , Bayer Environmental Science, Research Triangle Park, NC
1:45	Potential attractiveness and impact of Terminix Allclear ATSB concentrate to honey bees during nectar dearth, Kirk Tubbs , Manager Twin Falls County Pest Abatement District, Twin Falls, ID
2:00	Promoting honey bee health in Utah, Joey Caputo , Apiary Inspector, Utah Department of Agriculture and Food
2:15	The effect of three pyrethroids on a non-target insect, the alfalfa leafcutting bee (<i>Megachile rotundata</i>), Alyssa M Piccolomini M.S. and Robert KD Peterson, PhD., Entomology Department of Land Resources and Environmental Science, Montana State University
2:40	Estimating methoprene resistance in laboratory and field populations of <i>Culex pipiens</i> , Scott A. Bernhardt, PhD , Ryan L. Keweshan, Zachariah Gompert, Utah State University
2:55	PrecisionVision remote piloted aircraft update and our progress with the FAA, Bill Reynolds , Leading Edge Associates
3:10	Nominations: Ryan Lusty, Manager, Magna MAD
3:15	Break Door prize drawing @ 3:35
3:45	What lies beneath: a practical approach to mosquito suppression in underground storm drains, Mark Daniel , Director of Operations, Greater Los Angeles County Vector Control District, Los Angeles, CA
4:00	MapVision Enterprise a few key features in the challenges of disease and heightened surveillance and the CalSurv Synchronization, Bill Reynolds , Leading Edge Associates
4:15	Reduced susceptibility of Culex larvae in catch basins, Greg White, PhD , Assistant Manager/Entomologist Salt Lake City Mosquito Abatement District
4:30	Flying high for mosquitoes, Scott Bradshaw , Manager, Tooele Valley MAD, Jared Garcia, Jolly Rotor LLC
4:45	Mosquitoes, missionaries, Moab, myths, & more! Steve DeFeyter, Manager, Delta County Mosquito Control Program
5:00	Adjourn

Monday Evening AWARDS BANQUET

7:00 PM

Bernese Event Center

Tuesday Morning October 4, 2016 General Session Bernese Event Center

Moderator: Scott Bradshaw, UMAA Vice President

8:30	Continued aerial adulticide trials in Salt Lake City, Nadja Mayerle , Seasonal Laboratory Director, Salt Lake City MAD
8:45	Intra-agency cooperation to manage an outbreak of flea-borne typhus in Los Angeles County, California, Kenn Fujioka , Manager, San Gabriel Valley Mosquito & Vector Control District, Kimberly Nelson, Angela Brisco, Gilbert Holguin, and J Wakoli Wekesa
9:00	Setting up a qPCR lab: saving time and money, Dan Miller , Manager, Utah County Mosquito Abatement, Spanish Fork, Utah
9:15	Mosquito identification – southwest style, Sean Amodt , Manager, Southwest Mosquito Abatement & Control District
9:30	"Stick that in your bucket & trap it." – Slight modifications to CDC light trap, Kesler Hansen , Southwest Mosquito Abatement & Control District
9:45	Year two of an examination of mosquito activity using a collection bottle rotator trap, Ryan Arkoudas , Manager, Weber Mosquito Abatement District
10:00	Break Door prize drawing @ 10:20
10:00	
	Door prize drawing @ 10:20 Fighting vector-borne disease – putting the pieces together with geospatial solutions Linda Dean
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Tuesday Morning October 4, 2016

Trustee's Session Conference Center - Grindelwald

Moderator: Bryan Stephens, UMAA Past President

8:30 Trustee training—Part 1: Governance (roundtable discussion)

LeGrand Bitter, Executive Director, Utah Association of Special Districts

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

10:00 Break

10:30 Trustee training—Part 2: Financial (roundtable

discussion)

LeGrand Bitter, Executive Director, Utah

Association of Special Districts

Ryan Roberts, Supervisor, Local Government

Division, State Auditor's Office

12:00 Adjourn

12:15 **UMAA Annual Business Meeting**,

Monte Rosa

2016 UMAA SUSTAINING MEMBERS

ADAPCO INC.

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BAYER

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

CENTRAL LIFE SCIENCES, INC.

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

CLARKE

Drew Hunter 1278 29th CT NW Salem, OR, 97304 (800) 323-5727 (503) 505-4197 dhunt@clarke.com

FLEETTRACK GPS

Brian Hugie 321 No. Mall Dr., B102 St. George, UT 84790 (801) 721-9779 brian@fleettrackgps.com

FRONTIER PRESISION, INC. (formerly Elecdata)

Linda Glover 154 1st Avenue W. Jerome, ID 83338 (208) 324-8006 linda@frontierprecision.com

JOLLY ROTOR LLC

Jared Garcia 5819 Windsong Dr. Stansbury Park, UT 84074 (435) 578-8090 jollyrotor@gmail.com

TARGET SPECIALTY PRODUCTS

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UNIVAR ENVIRONMENTAL SCIENCES

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650 W. 800 S.
Salt Lake City, UT 84104-1026
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david.kunz@univarusa.com
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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

VALENT BIOSCIENCES

Stephanie Whitman 1450 North 45th Street Laramie, WY 82072 (307) 721-4335 (307) 399-1732 stephanie.whitman@valent.com

VECTOR DISEASE CONTROL, LLC (VDCI)

Malcom Williams 1320 Brookwood Dr. Suite H Little Rock AR 72202 (800) 413-4445 mwilliams@vdci.net

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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

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 Jaussi
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	2015	Bryan Stephens

The 69th Annual Conference of the Utah Mosquito Abatement Association is dedicated to the memories of Glen C Collett and Robert J Brand



GLEN CALVIN COLLETT 1926-2016

Glen Calvin Collett, 89 years old, of Salt Lake City, UT, passed away January 5, 2016, from complications due to his long decline from Alzheimer's disease. He was born on November 3, 1926, in Roosevelt, UT, the eighth child of Charles Capper Collett and Effa Rebecca Seeley Collett, and married Marvis Featherstone on June 7, 1950, being a caring, thoughtful husband for almost 66 years.

Learning from an early age to work hard, he graduated from South High in 1944, and then worked to put him-self through college, earning a B.S. degree in Zoology in 1949, followed by an M.S. degree in Entomology from the University of Utah in 1951. For both his undergraduate and graduate work, Dr. Don M. Rees was his major professor. The title of Glen's thesis was "On the Biology of Aedes niphadopsis." During his college years, Glen worked as a seasonal employee at the Salt Lake City Mosquito Abatement District (SLCMAD). Upon receiving his M.S. he was hired as the district entomologist at the Tulare Mosquito Abatement District. He worked there just one year before he went into the US Army and off to Korea. Upon returning he was hired as the field supervisor of the SLCMAD in 1954. He took over as the district's manager in 1955 and remained in that position until December of 1987.

During his professional years, Glen authored or coauthored 47 scientific publications, including "An Identification Guide to the Mosquitos of Utah" and "Natural Overwintering Hosts of the Virus of Western Equine Encephalitis."

During Glen's university and employment years, he belonged to The Society of the Sigma Xi scientific research association, the Phi Sigma Biological Society, the Military Preventative Medicine Association, the California Mosquito and Vector Control Association (CMVCA), the Utah Mosquito Abatement Association (UMAA), the Society for Vector Ecology (SOVE), and the American Mosquito Control Association (AMCA).

After his retirement, Glen was the executive director of the UMAA for 18 years. He continued to serve on the SLCMAD's supervisory board for many years. He also served on the board of the Magna Mosquito Abatement District. During his many years of work in mosquito control, he was well known throughout the USA, speaking at conferences held in many states.

For his service and professional recognition, Glen received a number of honors and awards. These included serving as president of the UMAA (1962), director of the AMCA

West Central Region (1963), and 32nd president of AMCA (1972). He was the first recipient of the Dr. Don M. Rees Award from the UMAA (1987), an honorary life member of the CMVCA (now the Mosquito and Vector Control Association of California)—the only out-of-state member ever to receive this award (1988), recipient of AMCA Medal of Honor (1989), president of the SOVE (1990), and honorary member of AMCA (1998). The UMAA Meritorious Service Award was renamed the Glen C. Collett Meritorious Service Award (2007).

Glen served in the Korean War as a preventative medicine technician and was awarded the Korean Service Medal, the United Nations Service Medal, and the National Defense Service Medal. The stories of his time in Korea were shared many times and will always be remembered, as will his kindness to the people of Korea that he served.

A former bishop in the Church of Jesus Christ of Latter-day Saints, Glen was active for many years in the young men's program as a leader, teacher, and father. He served faithfully in many positions in his high priests' groups. Garrulous, friendly, and caring, he always enjoyed his home teaching assignments and even when assignments would change, he would continue to care for and be concerned about those he had served as a home teacher.

Whatever his outside concerns were, however, his main focus was his home and family. A loving husband and father, he attended every baseball game, basketball game, and tennis match his children took part in. He enjoyed taking his family hiking, camping, and on vacations, and doing yard work with them. He taught his children his philosophies of hard work and commitment, stressing his basic precepts that any job worth doing is worth doing well and that if you are not five minutes early, you are late. He was always supportive of his wife in all her endeavors and they worked unitedly together in running their home. After his retirement, they became world travelers, visiting Russia, Egypt, Italy, Peru, China, and many other countries. However, no matter how fascinating the journey, he always looked forward to returning to garden in his own backyard.

Glen is survived by his wife, Marvis; his children Robin Collett of Salt Lake City, Steven (Stacy) Collett of Tualatin, OR, Gordon (Siv) Collett of Billings, MT, and Jill (Mark) Filicetti of Boise, ID; 13 grandchildren; and his sister Veva Andersen of Murray, UT.



Robert J Brand 1949-2016

Robert J Brand passed away May 12, 2016 surrounded by his family. He was born in Murray, UT on January 23, 1949 to Elden Dale and Wilberta "Bertie" Gosman Brand. Bob loved growing up in Midvale, UT where there were fields to roam and trees to climb.

Bob studied music theory and composition at BYU and drafting at SLCC. He married his sweetheart Sharon Ann Tillman in the spring of 1975 in the Salt Lake Temple, and together they raised 5 children. In 1977 they moved to Grantsville, UT where he started the Tooele Valley Mosquito Control program. In 2000 he co-authored an identification guide for "The Mosquitoes of Utah", still in use throughout Utah and other states today. At his retirement in 2014, he received the Don M. Reese award for his exceptional work.

Bob was a member of The Church of Jesus Christ of Latter Day Saints and was always willing to serve. He held many callings and loved being the ward organist. He loved the Book of Mormon above any other book. He was a missionary at the LDS Employment Resource Center at the time of his passing.

Bob loved life. He had many friends that he held dear. He had an influence on many. But nothing brought him greater joy than his faith in Christ, and his family. He loved his wife and children beyond words. He loved being a grandpa, and the time he was able to spend with his grandchildren.

Bob was preceded in death by his loving parents, his little brother Larry (Cathy), and his sweet wife Sharon. He is survived by his five children, Adrian (Michele) of Grantsville, Neal (Heidi) of Syracuse, Rebecca Greenburg (Ben) of Tooele, Russell and Rachel of Grantsville, 12 grandchildren, his sisters Cheryl Nielsen (Gale) of West Jordan, and Joan Enniss (Merrill) of Bluffdale.